

SIKA RESINOUS & CEMENTITIOUS FLOORING SYSTEMS

ENVIRONMENTAL PRODUCT DECLARATION



Included flooring systems

Sika ComfortFloor® PS 23

Sika ComfortFloor® PS 65

Sikafloor® DecoDur® Flake

Sikafloor® DecoDur® Granite

Sikafloor® DecoDur® Metallic

Sikafloor® DecoDur® Quartz

Sikafloor® ESD

Sikafloor® Merflex® ES

Sikafloor® Merflex® PS

Sikafloor® MultiDur EC

Sikafloor® MultiDur HS

Sikafloor® PurCem® TG

Sikafloor® PurCem® SL+

Sikafloor® PurCem® SL

Sikafloor® PurCem® VG

Pulastic Classic 90

The development of this environmental product declaration (EPD) for resinous and cementitious floor coating systems manufactured in the United States was commissioned by Sika Corporation. This EPD was developed in compliance with ISO 14025 and ISO 21930 by Groupe AGÉCO and has been verified by NSF.

This EPD includes life cycle assessment (LCA) results for the production, construction, use and end-of-life stages (cradle-to-grave).

For more information about Sika Corporation, please go to www.usa.sika.com

Issue date: December 20, 2023

In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, differences in certain assumptions, data quality, and variability between LCA data sets may still exist. As such, caution should be exercised when evaluating EPDs from different manufacturers or programs, as the EPD results may not be entirely comparable. Any EPD comparison must be carried out at the construction works level per ISO 21930:2017 guidelines. The results of this EPD reflect an average performance by the product and its actual impacts may vary on a case-to-case basis. This declaration shall solely be used in a Business to Business (B2B) capacity.

| | |
|---|---|
| Program operator | NSF International 789 N. Dixboro Road, Ann Arbor, Michigan 48105 USA https://www.nsf.org/ |
| General Program Instruction and version number | PCR for Resinous Floor Coatings, Version 1 |
| Reference PCR and version number | PCR for Resinous Floor Coatings NSF International Valid until December 17, 2023 |
| Declaration holder | Sika Corporation 201 Polito Avenue, Lyndhurst, New Jersey 07071 USA www.usa.sika.com |
| Declaration number | EPD10920 |
| Product category and subcategory | Resinous and cementitious flooring systems – Thin-mil and self-leveling/broadcast slurries |
| Date of issue (approval) | December 20, 2023 |
| Period of validity | December 27, 2023 – December 27, 2028 |
| The PCR review was conducted by | Thomas P. Gloria, Ph. D. Mr. Bill Stough Mr. Jack Geibig |
| The LCA and EPD were prepared by | Groupe AGÉCO www.groupeageco.ca ageco@groupeageco.ca |
| This EPD was independently verified in accordance with ISO 21930:2017 and ISO 14025. __ Internal x __ External | Jack Geibig, Ecoform jgeibig@ecoform.com |
| This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by | Jack Geibig, Ecoform jgeibig@ecoform.com |
| Functional unit | 1 m ² of covered and protected flooring surface for a period of 60 years |
| Market and technical lifetimes | Market: 5 to 20 years Technical: 5 to 30 years |
| Content of the products | See section 2 for complete description |
| Data quality assessment score | Good |
| Manufacturing locations | Marion, Ohio, United States of America |






This is a summary of the environmental product declaration (EPD) describing the environmental performance of resinous and cementitious flooring systems manufactured by Sika Corporation.

| EPD commissioner and owner | Period of validity | Program operator and registration number | Product Category Rule | LCA and EPD consultants |
|----------------------------|---------------------------------------|--|---|-------------------------|
| Sika Corporation | December 27, 2023 – December 27, 2028 | NSF International EPD10920 | PCR for Resinous Floor Coatings (NSF, 2018) | Groupe AGÉCO |

What is a Life Cycle Assessment (LCA)?

LCA is a science-based and internationally recognized tool to evaluate the relative potential environmental impacts of products and services throughout their life cycle, beginning with raw material extraction and including all aspects of transportation, production, use, and end-of-life treatment. The method is defined by the International Organization for Standardization (ISO) 14040 and 14044 standards. For EPD development, Product Category Rules (PCR) give additional guidelines on how to conduct the LCA of the product.

Why an EPD?

Sika Corporation is seeking to provide the industry, decision-makers, influencers, and the general public with more transparency, in terms of its sustainability efforts and environmental performance of its products, relying on a rigorous and recognized communication tool, the EPD. By selecting products with an EPD, building projects can earn credits towards the Leadership in Energy and Environmental Design (LEED) rating system certification. In the latest LEED versions (v4 and v4.1), points are awarded in the Materials and Resources category.

Product description

Resinous systems include epoxy, polyurethane, polyurethane aliphatic, and urethane acrylic-type systems made of individual coatings sold as liquid components. Cementitious systems are made of individual cementitious and resinous coatings. Cementitious components are sold as powders.

Functional unit

One square meter (1 m²) of covered and protected flooring surface for a period of 60 years.

Systems included in the EPD

Sika ComfortFloor® PS 23 • Sika ComfortFloor® PS 65
Sikafloor® DecoDur® Flake
Sikafloor® DecoDur® Granite
Sikafloor® DecoDur® Metallic
Sikafloor® DecoDur® Quartz

Scope and system boundary

Cradle-to-grave: production (A1-A3), construction (A4-A5), use (B1-B7) and end-of-life (C1-C4) stages.

Sikafloor® ESD • Sikafloor® Merflex® ES
Sikafloor® Merflex® PS • Sikafloor® MultiDur EC
Sikafloor® MultiDur HS • Sikafloor® PurCem® TG
Sikafloor® PurCem® SL+ • Sikafloor® PurCem® SL
Sikafloor® PurCem® VG • Pulastic Classic 90

Potential environmental impacts

The potential environmental impacts of **1 m² of covered and protected flooring surface for a period of 60 years** are summarized below for each floor system, service life, and main environmental indicator assessed (based on life cycle impact assessment method TRACI 2.1). For each floor system, there are at least two different service life values: a technical service life, for which coating systems are designed for, and a market service life, a typical period after which users replace coating systems. The service life also differs depending on the application, whether it is commercial or

industrial. Please, refer to the full EPD or LCA report for more detailed results. Results on resource use, waste generated, and output flows are presented in the full EPD.

Total cradle-to-grave (A1-C4) results of resinous and cementitious flooring systems per m² of covered and protected surface

(complete results are available in the full EPD)

| Systems | Application | Service life type | Service life | GWP kg CO ₂ - eq. | AP kg SO ₂ eq. | EP kg N eq. | SFP kg O ₃ eq. | ODP kg CFC-11 eq. |
|------------------------------|-------------|-------------------|--------------|------------------------------------|---------------------------------|----------------|------------------------------|-------------------------|
| Sika ComfortFloor® 23 | Commercial | Market | 20 | 1.84E+01 | 7.16E-02 | 5.10E-02 | 1.31E+00 | 6.99E-05 |
| | Commercial | Technical | 30 | 1.79E+01 | 6.84E-02 | 4.98E-02 | 1.26E+00 | 4.71E-05 |
| Sika ComfortFloor® 65 | Commercial | Market | 20 | 3.05E+01 | 1.23E-01 | 7.60E-02 | 2.04E+00 | 9.75E-05 |
| | Commercial | Technical | 30 | 3.00E+01 | 1.19E-01 | 7.48E-02 | 2.00E+00 | 6.59E-05 |
| Sikafloor® DecoDur® Flake | Commercial | Market | 20 | 2.29E+01 | 1.11E-01 | 6.10E-02 | 1.82E+00 | 5.11E-05 |
| | Commercial | Technical | 30 | 1.92E+01 | 9.27E-02 | 5.04E-02 | 1.50E+00 | 4.14E-05 |
| Sikafloor® DecoDur® Granite | Commercial | Market | 20 | 2.58E+01 | 1.23E-01 | 6.89E-02 | 2.05E+00 | 1.70E-04 |
| | Commercial | Technical | 30 | 2.53E+01 | 1.20E-01 | 6.77E-02 | 2.00E+00 | 1.47E-04 |
| Sikafloor® DecoDur® Metallic | Commercial | Market | 10 | 9.82E+00 | 4.66E-02 | 2.42E-02 | 7.87E-01 | 8.94E-05 |
| | Commercial | Technical | 15 | 8.21E+00 | 3.89E-02 | 2.12E-02 | 6.47E-01 | 6.20E-05 |
| Sikafloor® DecoDur® Quartz | Commercial | Market | 20 | 2.85E+01 | 1.31E-01 | 5.84E-02 | 2.52E+00 | 5.90E-05 |
| | Commercial | Technical | 30 | 2.55E+01 | 1.17E-01 | 5.27E-02 | 2.16E+00 | 4.54E-05 |
| | Industrial | Market | 10 | 3.78E+01 | 1.77E-01 | 7.72E-02 | 3.62E+00 | 9.98E-05 |
| | Industrial | Technical | 15 | 3.16E+01 | 1.46E-01 | 6.45E-02 | 2.88E+00 | 7.26E-05 |
| Sikafloor® ESD | Industrial | Market | 5 | 5.67E+01 | 2.94E-01 | 2.01E-01 | 5.26E+00 | 1.91E-04 |
| | Industrial | Technical | | | | | | |
| Sikafloor® Merflex® ES | Industrial | Market | 10 | 2.50E+01 | 1.26E-01 | 8.50E-02 | 2.61E+00 | 2.70E-05 |
| | Industrial | Technical | 15 | 1.98E+01 | 9.88E-02 | 6.99E-02 | 1.94E+00 | 1.83E-05 |
| Sikafloor® Merflex® PS | Industrial | Market | 10 | 2.36E+01 | 1.04E-01 | 5.59E-02 | 2.45E+00 | 6.13E-05 |
| | Industrial | Technical | 15 | 1.88E+01 | 8.09E-02 | 4.59E-02 | 1.84E+00 | 4.11E-05 |
| Sikafloor® MultiDur® EC | Industrial | Market | 5 | 4.29E+01 | 2.20E-01 | 9.79E-02 | 3.63E+00 | 1.20E-04 |
| | Industrial | Technical | | | | | | |
| Sikafloor® MultiDur® HS | Industrial | Market | 5 | 1.42E+01 | 6.86E-02 | 4.12E-02 | 2.42E+00 | 3.79E-05 |
| | Industrial | Technical | | | | | | |
| Sikafloor® PurCem® TG | Industrial | Market | 20 | 4.17E+01 | 1.85E-01 | 1.27E-01 | 3.47E+00 | 5.28E-06 |
| | Industrial | Technical | 30 | 3.89E+01 | 1.74E-01 | 1.18E-01 | 3.27E+00 | 4.93E-06 |
| Sikafloor® PurCem® SL+ | Industrial | Market | 10 | 4.05E+01 | 1.68E-01 | 1.27E-01 | 3.06E+00 | 4.98E-06 |
| | Industrial | Technical | 15 | 3.46E+01 | 1.45E-01 | 1.07E-01 | 2.65E+00 | 4.28E-06 |
| Sikafloor® PurCem® SL | Industrial | Market | 10 | 3.61E+01 | 1.43E-01 | 1.16E-01 | 2.56E+00 | 4.34E-06 |
| | Industrial | Technical | 15 | 3.02E+01 | 1.20E-01 | 9.67E-02 | 2.15E+00 | 3.64E-06 |
| Sikafloor® PurCem® VG | Industrial | Market | 20 | 1.59E+01 | 7.02E-02 | 4.95E-02 | 1.34E+00 | 1.93E-06 |
| | Industrial | Technical | 30 | 1.46E+01 | 6.48E-02 | 4.53E-02 | 1.24E+00 | 1.75E-06 |
| Pulastic Classic 90 | Commercial | Market | 20 | 3.60E+01 | 1.39E-01 | 9.45E-02 | 2.27E+00 | 2.03E-05 |
| | Commercial | Technical | 30 | 3.57E+01 | 1.38E-01 | 9.44E-02 | 2.24E+00 | 1.47E-05 |

Notes: "2.8E-1" means 0.28. GWP = Global warming potential (GWP100); AP = Acidification potential; EP = Eutrophication potential; SFP = Smog formation potential; ODP = Ozone depletion potential.

Additional environmental information

This section provides additional relevant environmental information about the manufacturer and the floor systems that were not derived from the LCA.

Sika's Commitment to sustainability

Sika is committed to measure, improve, and communicate sustainable value creation: “More value, less impact” refers to the company's commitment to maximize the value of its solutions to all stakeholders while reducing resource consumption and impact on the environment. As a leading manufacturer and marketer of construction materials, Sika has recognized for many years the importance of providing its customers with quality, high performance, and sustainable materials. Sika strives to provide product solutions that allow customers to build more sustainably, whether it be longer product life, better end-of-life solutions (recyclable materials and packaging), or increased safety in application.

Sika supports the Science-Based Target Initiative (SBTi) and has pledged to reach net zero by no later than 2050. By doing so, Sika recognizes the crucial role companies can play in minimizing the risk climate change poses to the future of our planet. Achieving net zero requires a combined effort from all stakeholders up and downstream of the value chain. Thus, creating strong partnerships and collaboration is key for the success of this initiative. Through Sika's partnership with the US Department of Energy's Better Climate Challenge, Sika has committed to reducing their greenhouse gas emissions by 50% and energy consumption related to operations by 10% within 10 years.

Sika's Marion, Ohio manufacturing site has obtained ISO 9001 certification for quality management and ISO 14001 certification for environmental management.

Waste packaging management

Sika Corporation encourages its customer to purchase products in the largest packaging configuration to minimize packaging landfill waste. Sika continuously monitors alternate packaging technologies that reduce waste and minimize the carbon footprint regarding production, transportation, and disposal or recycling.

For more information: www.usa.sika.com

1. Description of Sika Corporation

Sika Corporation, headquartered in Lyndhurst, NJ, is a specialty chemicals company with a leading position in the development and production of systems and solutions for bonding, sealing, damping, reinforcing, and protecting the construction, residential & home improvement, oil & gas pipeline and the transportation, marine, and automotive manufacturing industries. Sika's unique product technologies include concrete admixtures & fibers, mortars, epoxies, urethanes, structural strengthening systems, industrial flooring, PVC and liquid applied membrane roofing systems, thermal insulation, plaster, and stucco, below-grade waterproofing, and acoustical & reinforcing materials.

Sika is a global company with a strong tradition in innovation and quality, continuously developing products and solutions that create new opportunities for the company, its employees, and customers. Sika is committed to sustainable development. The company honors its global responsibilities by offering sustainable solutions for energy-efficient construction projects and automotive vehicles. Sika's "More Value - Less Impact" strategy focuses on minimizing risks and resource consumption while generating value in solutions and contributions to stakeholders.

2. Description of products

2.1. Definition and product classification

This EPD developed with the Product Category Rules (PCR) for Resinous Floor Coatings from NSF covers 16 floor coating systems comprised of resinous and cementitious products. Resinous systems include epoxy, polyurethane, aliphatic polyurethane, and urethane acrylic-type systems made of individual coatings (i.e., primer, base coat and top coat) sold as liquid components. Components are shipped to the construction site where they are mixed and coated one above the other. The cementitious systems are made of individual cementitious and resinous coatings (i.e., primer, base coat and top coat). Cementitious components are sold as powders that are then mixed with a polymer during installation. All coatings are used as flooring systems for both commercial and industrial applications (see examples in Figure 1).



Figure 1: Examples of resinous floor coating systems

The main substances entering the composition of resinous floor coating systems are presented in Table 1.

Table 1: Composition of resinous floor coating systems included in this EPD. This list includes all options considered for each system, as listed in the system data sheets. Note that the results are only provided for the worst-case product combinations for each system

| system | Products | Base or Option? | Role |
|--|-----------------------------------|-----------------|---------------------------|
| Sika ComfortFloor® 23 | Sikafloor® -161 | Base | Primer |
| | Sikafloor® -330 | Base | Base coat |
| | Sikafloor® -305 W NA | Base | Top coat |
| | Sikafloor® -165 FS | Option | Primer |
| | Sikafloor® -1620 | Option | Primer |
| | Sikafloor® -2570 | Option | Primer |
| | Sikafloor® -304 W | Option | Top coat |
| Sika ComfortFloor® 65 | Sikafloor® Comfort Adhesive | Base | Mat adhesive |
| | Sikafloor® Comfort Regupol-6015H | Base | Recycled rubber mat |
| | Sikafloor® Comfort Porefiller | Base | Mat pore filler |
| | Sikafloor® -330 | Base | Base coat |
| | Sikafloor® -305 W NA | Base | Top coat |
| Sikafloor® DecoDur® Flake, standard system | Sikafloor® -161 | Base | Primer |
| | Sikafloor® -264 | Base | Receiver Coat |
| | Sikafloor® Decorative Vinyl | Base | Flake |
| | Sikafloor® -217 | Base | Top coat |
| | Sikafloor® -1620 | Option | Primer |
| | Sikafloor® -165 FS | Option | Primer |
| | Sikafloor® -511 | Option | Alternative receiver coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor® -511 | Option | Alternative top coat |
| | Sikafloor® -511 | Option | Second top coat |
| | Sikafloor® -217 | Option | Second top coat |
| | Sikafloor® -304 W | Option | Second top coat |
| | Sikafloor® -340 | Option | Second top coat |
| | Sikafloor® -315 N | Option | Second top coat |
| Sikafloor® DecoDur® Flake, broadcast system | Sikafloor® -161 | Base | Primer |
| | Sikafloor® -264 | Base | Receiver Coat |
| | Sikafloor® Decorative Vinyl Flake | Base | Flake |
| | Sikafloor® -217 | Base | Second receiver coat |
| | Sikafloor® Decorative Vinyl Flake | Base | Flake |
| | Sikafloor® -217 | Base | Top coat |
| | Sikafloor® -1620 | Option | Primer |
| | Sikafloor® -165 FS | Option | Primer |
| | Sikafloor® -511 | Option | Alternate receiver coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor® -511 | Option | Alternate top coat |
| | Sikafloor® -511 | Option | Second top coat |
| | Sikafloor® -217 | Option | Second top coat |
| | Sikafloor® -304 W | Option | Second top coat |

| system | Products | Base or Option? | Role |
|-------------------------------------|----------------------------------|-----------------|-------------------------|
| | Sikafloor®-340 | Option | Second top coat |
| | Sikafloor®-315 N | Option | Second top coat |
| Sikafloor® DecoDur® Granite | Sikafloor®-264 | Base | Base coat |
| | Sikafloor®-218 DF | Base | Slurry coat |
| | Sika® DecoDur® Granite Aggregate | Base | Synthetic aggregate |
| | Sikafloor®-304 W NA | Base | Top coat |
| | Sikafloor®-1620 | Option | Primer |
| | Sikafloor®-165 FS | Option | Primer |
| | Sikafloor®-315 N | Option | Second top coat |
| Sikafloor® DecoDur® Metallic | Sikafloor®-264 | Base | Primer |
| | Sikafloor®-217 | Base | Body coat |
| | Sika® Metallic Powder | Base | Metallic aggregate |
| | Sikafloor®-315 N | Base | Top coat |
| | Sikafloor®-1620 | Option | Primer |
| | Sikafloor®-165 FS | Option | Primer |
| | Sikafloor®-2540 W NA | Option | Primer |
| | Sikafloor®-511 | Option | Alternate body coat |
| | Sika® Metallic Powder | Option | Metallic aggregate |
| Sikafloor®-304 W | Option | Top coat | |
| Sikafloor® DecoDur® Quartz | Sikafloor®-161 | Base | Primer |
| | Sikafloor®-217 | Base | Receiver coat |
| | Sikafloor® Decorative Quartz | Base | Aggregate |
| | Sikafloor®-1620 | Option | Primer |
| | Sikafloor®-165 FS | Option | Primer |
| | Sikafloor®-511 | Option | Second receiver coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor®-511 | Option | Top coat |
| | Sikafloor®-225 N | Option | Top coat |
| | Sikafloor®-340 | Option | Second top coat |
| | Sikafloor®-315 N | Option | Second top coat |
| Sikafloor®-304 W | Option | Second top coat | |
| Sikafloor® ESD | Sikafloor®-161 | Base | Primer |
| | Sikafloor®-220 W Conductive | Base | Conductive primer |
| | Sikafloor® 200 C ESD | Base | Top coat |
| Sikafloor® Merflex® ES | Sikafloor®-265 | Base | Base coat |
| | Sikafloor®-265 | Base | Body coat |
| | Sikafloor®-264 | Base | Top coat |
| | Sikafloor®-161 | Option | Primer |
| | Sikafloor®-1620 | Option | Primer |
| | Sikafloor®-511 | Option | Alternate receiver coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor®-316 N | Option | Second top coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor®-340 | Option | Second top coat |

| system | Products | Base or Option? | Role |
|--------------------------------|---|-----------------|--------------------------|
| | Sikafloor®-Urethane Color Additive | Option | n/a |
| Sikafloor® Merflex® PS | Sikafloor® -160 | Base | Primer |
| | Sikafloor®-330 | Base | Body coat |
| | Sikafloor® -305 W NA | Base | Top coat |
| | Sikafloor® -2570 WB | Option | Primer |
| | Sikafloor® -165 FS | Option | Primer |
| | Sikafloor® -1620 | Option | Primer |
| | Sikafloor® -511 | Option | Alternate receiver coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor® -316 N | Option | Second top coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor® -340 | Option | Second top coat |
| | Sikafloor®-Urethane Color Additive | Option | n/a |
| Sikafloor® MultiDur® EC | Sikafloor® -161 | Base | Primer |
| | Sikafloor® -264 | Base | Body coat |
| | Sikafloor® -264 | Base | Top coat |
| | Sikafloor® -1620 | Option | Primer |
| | Sikafloor® -165 FS | Option | Primer |
| | Sikafloor® -511 | Option | Top coat/second top coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor® -316 N | Option | Top coat/second top coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| | Sikafloor® -340 | Option | Top coat/second top coat |
| | Sikafloor®-Urethane Color Additive | Option | n/a |
| Sikafloor® MultiDur® HS | Sikafloor® -161 | Base | Primer |
| | Sikafloor® -264 | Base | Body coat |
| | Sikafloor® -340 | Base | Top coat |
| | Sikafloor® -1620 | Option | Primer |
| | Sikafloor® -165 FS | Option | Primer |
| | Sikafloor® -316 N | Option | Top coat |
| | Sikafloor® SCO Color Additive | Option | n/a |
| Sikafloor® PurCem® TG | Sikafloor® -19 NA PurCem® | Base | Troweled mortar |
| | Sikafloor® -2570 | Option | Primer/scratch coat |
| | Sikafloor® -31 NA PurCem® | Option | Primer/scratch coat |
| | Sikafloor® -24 NA PurCem® | Option | Primer/scratch coat |
| | Sikadur®-508 Medium Broadcast Aggregate | Option | Aggregate |
| | Sikafloor® -31 NA PurCem® | Option | Top coat |
| Sikafloor® PurCem® SL+ | Sikafloor® -22 NA PurCem® | Base | Self-leveling slurry |
| | Sikafloor® -2570 | Option | Primer |
| | Sikafloor® -31 NA PurCem® | Option | Primer |
| Sikafloor® PurCem® SL | Sikafloor® -31 NA PurCem® | Base | Primer |
| | Sikafloor® -24 NA PurCem® | Base | Self-leveling slurry |
| | Sikafloor® -2570 | Option | Primer |

| system | Products | Base or Option? | Role |
|------------------------------|---------------------------|-----------------|--------------------|
| | Sikafloor®-31 NA PurCem® | Option | Primer |
| Sikafloor® PurCem® VG | Sikafloor®-31 NA PurCem® | Base | Primer |
| | Sikafloor®-29 NA PurCem® | Base | Mortar |
| | Sikafloor®-31 NA PurCem® | Base | Top coat |
| | Sikafloor®-161 | Option | Primer |
| | Taclu ST | Base | Adhesive |
| Pulastic Classic 90 | Shock pad (7 mm) | Base | Shock pad |
| | Pulastic® EG | Base | Pad sealer |
| | Pulastic® GM-1500 | Base | Polyurethane resin |
| | Pulastic Coating-221 W | Base | Top coat |
| | Pulastic® Linepaint OE/LP | Base | Court markings |

More information on these systems is available on Sika Corporation's website: <https://usa.sika.com/>

2.2. Material content

The material composition of each component per product as disclosed in SDS (Safety Data Sheets) are provided in Table 2 as required by the PCR. The complete component formulations were used to calculate the LCA results. The chemical ingredients listed in Table 3 are hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200). All other proprietary ingredients are considered non-hazardous. The actual composition is withheld as a trade secret.

Table 2: Composition of components per product as disclosed in SDS

| Floor coating systems | Components (layers: with options) | Worst-case system composition ¹ | Coverage | |
|----------------------------------|-----------------------------------|--|----------|-------------------|
| | | | Average | Unit |
| Sika ComfortFloor® PS 23 | | | | |
| Standard system | Sikafloor®-161 | | 0.33 | kg/m ² |
| | Sikafloor®-330 | x | 3.25 | kg/m ² |
| | Sikafloor®-305 W NA | | 0.18 | kg/m ² |
| Options | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-2570 | | 0.12 | kg/m ² |
| | Sikafloor®-304 W NA | x | 0.17 | kg/m ² |
| Sika ComfortFloor® PS 65 | | | | |
| Standard system | Sikafloor® Comfort Adhesive | x | 0.57 | kg/m ² |
| | Sikafloor® Comfort Regupol-6015 H | x | 2.88 | kg/m ² |
| | Sikafloor® Comfort Porefiller | x | 0.57 | kg/m ² |
| | Sikafloor®-330 | x | 3.25 | kg/m ² |
| | Sikafloor®-305 W NA | x | 0.18 | kg/m ² |
| Sikafloor® DecoDur® Flake | | | | |

¹ Worst-case products are determined based on their impact on the climate change indicator (kg CO₂ eq.) for the quantity present in each system. One product was chosen for each function (i.e. primer, body coat, top coat, etc.). Where additional coats are optional, they are always considered in the worst-case scenario.

| Floor coating systems | Components (layers: with options) | Worst-case system composition ¹ | Coverage | |
|-------------------------------------|-----------------------------------|--|----------|-------------------|
| | | | Average | Unit |
| Standard system | Sikafloor®-161 | | 0.30 | kg/m ² |
| | Sikafloor®-264 | | 0.37 | kg/m ² |
| | Sika Decorative Vinyl Flake | | 2.16 | kg/m ² |
| | Sikafloor®-217 | | 0.30 | kg/m ² |
| Double broadcast system | Sikafloor®-161 | | 0.30 | kg/m ² |
| | Sikafloor®-264 | | 0.37 | kg/m ² |
| | Sika Decorative Vinyl Flake | x | 1.00 | kg/m ² |
| | Sikafloor®-217 | | 0.38 | kg/m ² |
| | Sika Decorative Vinyl Flake | x | 1.00 | kg/m ² |
| | Sikafloor®-217 | x | 0.30 | kg/m ² |
| Options | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-511 | x | 0.45 | kg/m ² |
| | Sikafloor® SCO Color Additive | x | 0.001 | kg/m ² |
| | Sikafloor®-511 | x | 0.45 | kg/m ² |
| | Sikafloor® SCO Color Additive | x | 0.001 | kg/m ² |
| | Sikafloor®-511 | | 0.27 | kg/m ² |
| | Sikafloor®-511 | | 0.37 | kg/m ² |
| | Sikafloor®-217 | x | 0.37 | kg/m ² |
| | Sikafloor®-304 W NA | | 0.17 | kg/m ² |
| | Sikafloor®-340 | | 0.13 | kg/m ² |
| | Sikafloor®-315 N | | 0.13 | kg/m ² |
| Sikafloor® DecoDur® Granite | | | | |
| Standard system | Sikafloor®-264 | x | 0.30 | kg/m ² |
| | Sikafloor®-218 DF | x | 2.46 | kg/m ² |
| | Sika® DecoDur Granite Aggregate | x | 2.03 | kg/m ² |
| | Sikafloor®-304 W NA | x | 0.17 | kg/m ² |
| Options | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-315 N | | 0.10 | kg/m ² |
| Sikafloor® DecoDur® Metallic | | | | |
| Standard system | Sikafloor®-264 | | 0.30 | kg/m ² |
| | Sikafloor®-217 | x | 0.49 | kg/m ² |
| | Sika® Metallic Powder | x | 0.0005 | kg/m ² |
| | Sikafloor®-315 N | x | 0.13 | kg/m ² |
| Options | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-2540 W NA | | 0.19 | kg/m ² |
| | Sikafloor®-511 | | 0.47 | kg/m ² |
| | Sika® Metallic Powder | | 0.0005 | kg/m ² |
| | Sikafloor®-304 W NA | | 0.17 | kg/m ² |
| Sikafloor® DecoDur® Quartz | | | | |
| Standard system | Sikafloor®-161 | | 0.30 | kg/m ² |

| Floor coating systems | Components (layers: with options) | Worst-case system composition ¹ | Coverage | |
|------------------------------------|------------------------------------|--|-------------------|-------------------|
| | | | Average | Unit |
| | Sikafloor®-217 | x | 0.38 | kg/m ² |
| | Sikafloor®-Decorative Quartz | x | 2.23 | kg/m ² |
| | Sikafloor®-217 | | 0.38 | kg/m ² |
| | Sikafloor®-Decorative Quartz | x | 2.23 | kg/m ² |
| | Sikafloor®-217 | | 0.38 | kg/m ² |
| Options | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-511 | x | 0.47 | kg/m ² |
| | Sikafloor® SCO Color Additive | x | 0.001 | kg/m ² |
| | Sikafloor®-511 | x | 0.45 | kg/m ² |
| | Sikafloor®-225 N | | 0.45 | kg/m ² |
| | Sikafloor®-340 | x | 0.13 | kg/m ² |
| | Sikafloor®-315 N | | 0.13 | kg/m ² |
| | Sikafloor®-304 W NA | | 0.17 | kg/m ² |
| Sikafloor® ESD | | | | |
| Standard system | Sikafloor®-161 | x | 0.30 | kg/m ² |
| | Sikafloor®-220 W Conductive | x | 0.14 | kg/m ² |
| | Sikafloor®-200 C ESD | x | 0.48 | kg/m ² |
| Sikafloor® Merflex® ES | | | | |
| Standard system | Sikafloor®-265 | x | 0.59 | kg/m ² |
| | Sikafloor®-265 | x | 0.59 | kg/m ² |
| | Sikafloor®-264 | x | 0.37 | kg/m ² |
| Options | Sikafloor®-161 | | 0.30 | kg/m ² |
| | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-511 | | 0.30 | kg/m ² |
| | Sikafloor® SCO Color Additive | | 0.001 | kg/m ² |
| | Sikafloor®-316 N | | 0.13 | kg/m ² |
| | Sikafloor® SCO Color Additive | | 0.001 | kg/m ² |
| | Sikafloor®-340 | | 0.13 | kg/m ² |
| Sikafloor®-Urethane Color Additive | | 0.001 | kg/m ² | |
| Sikafloor® Merflex® PS | | | | |
| Standard system | Sikafloor®-161 | | 0.27 | kg/m ² |
| | Sikafloor®-330 | x | 1.63 | kg/m ² |
| | Sikafloor®-305 W NA | | 0.14 | kg/m ² |
| Options | Sikafloor®-2570 | | 0.12 | kg/m ² |
| | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-511 | x | 0.30 | kg/m ² |
| | Sikafloor® SCO Color Additive | x | 0.001 | kg/m ² |
| | Sikafloor®-316 N | | 0.13 | kg/m ² |
| | Sikafloor® SCO Color Additive | | 0.001 | kg/m ² |
| | Sikafloor®-340 | x | 0.13 | kg/m ² |
| | Sikafloor®-Urethane Color Additive | x | 0.001 | kg/m ² |

| Floor coating systems | Components (layers: with options) | Worst-case system composition ¹ | Coverage | |
|--------------------------------|---|--|----------|-------------------|
| | | | Average | Unit |
| Sikafloor® MultiDur EC | | | | |
| Standard system | Sikafloor®-161 | | 0.30 | kg/m ² |
| | Sikafloor®-264 | x | 0.30 | kg/m ² |
| | Sikafloor®-264 | | 0.30 | kg/m ² |
| Options | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-511 | x | 0.38 | kg/m ² |
| | Sikafloor® SCO Color Additive | x | 0.001 | kg/m ² |
| | Sikafloor®-316 N | | 0.13 | kg/m ² |
| | Sikafloor® SCO Color Additive | | 0.001 | kg/m ² |
| | Sikafloor®-340 | | 0.13 | kg/m ² |
| | Sikafloor®-Urethane Color Additive | | 0.001 | kg/m ² |
| Sikafloor® MultiDur® HS | | | | |
| Standard system | Sikafloor®-161 | | 0.30 | kg/m ² |
| | Sikafloor®-264 | x | 0.47 | kg/m ² |
| | Sikafloor®-340 | x | 0.13 | kg/m ² |
| Options | Sikafloor®-1620 | x | 0.25 | kg/m ² |
| | Sikafloor®-165 FS | | 0.25 | kg/m ² |
| | Sikafloor®-316 N | | 0.13 | kg/m ² |
| | Sikafloor® SCO Color Additive | | 0.001 | kg/m ² |
| Sikafloor® PurCem® TG | | | | |
| Standard system | Sikafloor®-19 NA PurCem® | | 16.31 | kg/m ² |
| Options | Sikafloor®-19 NA PurCem® FS | x | 16.31 | kg/m ² |
| | Sikafloor®-2570 | | 0.10 | kg/m ² |
| | Sikafloor®-31 NA PurCem® | | 0.61 | kg/m ² |
| | Sikafloor®-31 NA PurCem® FS | | 0.61 | kg/m ² |
| | Sikafloor®-24 NA PurCem® | | 1.86 | kg/m ² |
| | Sikafloor®-24 NA PurCem® FS | x | 1.86 | kg/m ² |
| | Sikadur®-508 Medium Broadcast Aggregate | x | 0.01 | kg/m ² |
| | Sikafloor®-31 NA PurCem® | | 0.61 | kg/m ² |
| | Sikafloor®-31 NA PurCem® FS | | 0.61 | kg/m ² |
| | Sikafloor®-19 NA PurCem® | | 16.31 | kg/m ² |
| | Sikafloor®-19 NA PurCem® FS | | 16.31 | kg/m ² |
| | Sikafloor®-2570 | | 0.10 | kg/m ² |
| | Sikafloor®-31 NA PurCem® | | 0.61 | kg/m ² |
| | Sikafloor®-31 NA PurCem® FS | x | 0.61 | kg/m ² |
| Sikafloor® PurCem® SL+ | | | | |
| Standard system | Sikafloor®-22 NA PurCem® | | 10.01 | kg/m ² |
| Options | Sikafloor®-31 NA PurCem® FS | x | 0.61 | kg/m ² |
| | Sikafloor®-22 NA PurCem® FS | x | 10.01 | kg/m ² |
| | Sikafloor®-2570 | | 0.10 | kg/m ² |
| | Sikafloor®-31 NA PurCem® | | 0.61 | kg/m ² |
| | Sikafloor®-31 NA PurCem® FS | x | 0.61 | kg/m ² |

| Floor coating systems | Components (layers: with options) | Worst-case system composition ¹ | Coverage | |
|------------------------------|-----------------------------------|--|----------|-------------------|
| | | | Average | Unit |
| Sikafloor® PurCem® SL | | | | |
| Standard system | Sikafloor®-31 NA PurCem® | | 0.61 | kg/m ² |
| | Sikafloor®-24 NA PurCem® | | 4.69 | kg/m ² |
| Options | Sikafloor®-31 NA PurCem® FS | x | 0.61 | kg/m ² |
| | Sikafloor®-24 NA PurCem® FS | x | 4.69 | kg/m ² |
| | Sikafloor®-2570 | | 0.10 | kg/m ² |
| | Sikafloor®-31 NA PurCem® | | 0.61 | kg/m ² |
| | Sikafloor®-31 NA PurCem® FS | x | 0.61 | kg/m ² |
| Sikafloor® PurCem® VG | | | | |
| Standard system | Sikafloor®-31 NA PurCem® | | 0.32 | kg/m ² |
| | Sikafloor®-29 NA PurCem® | | 5.93 | kg/m ² |
| | Sikafloor®-31 NA PurCem® | | 0.32 | kg/m ² |
| Options | Sikafloor®-31 NA PurCem® FS | x | 0.32 | kg/m ² |
| | Sikafloor®-29 NA PurCem® FS | x | 5.93 | kg/m ² |
| | Sikafloor®-31 NA PurCem® FS | x | 0.32 | kg/m ² |
| | Sikafloor®-161 | | 0.30 | kg/m ² |
| Pulastic Classic 90 | | | | |
| Standard system | Tacly ST | x | 0.68 | kg/m ² |
| | Shock pad (7 mm) | x | 4.73 | kg/m ² |
| | Pulastic® EG | x | 0.50 | kg/m ² |
| | Pulastic® GM-1500 | x | 2.80 | kg/m ² |
| | Pulastic Coating-221 W | x | 0.13 | kg/m ² |
| | Pulastic® Linepaint OE/LP | x | 0.001 | kg/m ² |

Table 3: Composition of EPD coatings as disclosed in safety data sheets

The chemical ingredients listed are hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|--|---|------------------------------|
| Pulastic® EG | (Part A) barium sulfate | >= 10 - < 20 |
| | (Part A) Quartz (SiO ₂) >5µm | >= 10 - < 20 |
| | (Part A) Talc | >= 5 - < 10 |
| | (Part A) 2-ethylhexane-1,3-diol | >= 1 - < 5 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 50 - < 70 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate | >= 10 - < 20 |
| | (Part B) 2,2'-methylenediphenyl diisocyanate | >= 0.1 - < 1 |
| Pulastic Coating-221 W | (Part A) zinc bis(2-ethylhexanoate) | >= 0.1 - < 0.25 |
| | (Part A) triethylamine | >= 0.1 - < 1 |
| | (Part A) bronopol (INN) | >= 0.025 - < 0.1 |
| | (Part B) HDI oligomers, isocyanurate | >= 90 - <= 100 |
| Pulastic® GM-1500 | (Part A) barium sulfate | >= 10 - < 20 |
| | (Part A) Talc | >= 1 - < 5 |
| | (Part A) Quartz (SiO ₂) >5µm | >= 0.1 - < 1 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 30 - < 50 |
| | (Part B) Aromatic Polyisocyanate-Prepolymer | >= 30 - < 50 |
| | (Part B) 4,4'-Methylenediphenyl diisocyanate, oligomers | >= 20 - < 30 |
| Pulastic® Linepaint OE/LP | (Part A) titanium dioxide | >= 25 - < 50 |
| | (Part A) triethylamine | < 1 |
| | (Part B) Aliphatic polyisocyanate | >= 50 - <= 100 |
| | (Part B) hexamethylene-di-isocyanate | < 1 % |
| Taclly ST | (Part A) barium sulfate | >= 30 - < 50 |
| | (Part A) Polypropylene glycol | >= 1 - < 5 |
| | (Part A) Quartz (SiO ₂) >5µm | >= 1 - < 5 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 50 - < 70 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate | >= 10 - < 20 |
| | (Part B) 2,2'-methylenediphenyl diisocyanate | >= 0.1 - < 1 |
| Shock pad (7 mm) & Sikafloor® Comfort Regupol-6015 H | Not applicable | |
| Sikafloor® Comfort Adhesive | (Part A) barium sulfate | >= 30 - < 50 |
| | (Part A) Polypropylene glycol | >= 1 - < 5 |

² Resinous components are usually sold in two or three separate parts that are mixed on site prior to application. When this is the case, the part in which the ingredient is contained is indicated with a letter.

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|---|---|------------------------------|
| | (Part A) Quartz (SiO ₂) >5µm | >= 1 - < 5 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 50 - < 70 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate | >= 10 - < 20 |
| | (Part B) 2,2'-methylenediphenyl diisocyanate | >= 0.1 - < 1 |
| Sika® DecoDur Granite Aggregate | Limestone | >= 90 - <= 100 |
| | Quartz (SiO ₂) >5µm | >= 0.1 - < 1 |
| Sikafloor® DecoFlake | barium sulfate | >= 70 - < 90 |
| | Titanium dioxide | >= 5 - < 10 |
| | Carbon black, amorphous | >= 0.1 - < 1 |
| Sika® Metallic Powder | Mica | >= 50 - < 70 |
| | Diiron trioxide | >= 30 - < 50 |
| Sikadur®-508 Medium Broadcast Aggregate | Quartz (SiO ₂) >5µm | >= 90 - <= 100 |
| | aluminium oxide | >= 1 - < 5 |
| Sikafloor® Comfort Porefiller | (Part A) barium sulfate | >= 10 - < 20 |
| | (Part A) Quartz (SiO ₂) >5µm | >= 10 - < 20 |
| | (Part A) Talc | >= 5 - < 10 |
| | (Part A) 2-ethylhexane-1,3-diol | >= 1 - < 5 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 50 - < 70 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate | >= 10 - < 20 |
| Sikafloor®-330 | (Part A) barium sulfate | >= 20 - < 30 |
| | (Part A) Talc | >= 1 - < 5 |
| | (Part A) 2-ethylhexane-1,3-diol | >= 1 - < 5 |
| | (Part A) bisphenol-A-(epichlorhydrin) epoxy | >= 0.1 - < 1 |
| | (Part A) Quartz (SiO ₂) >5µm | >= 0.1 - < 1 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 0.1 - < 1 |
| | (Part A) P-tert-butylphenyl-1-(2,3-epoxy)propyl ether | >= 0.1 - < 1 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 50 - < 70 |
| | (Part B) aromatic isocyanate-prepolymer | >= 20 - < 30 |
| | (Part B) 4,4'-Methylenediphenyl diisocya-nate, oligomers | >= 20 - < 30 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate | >= 0.1 - < 1 |
| Sikafloor®-160 | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 70 - < 90 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | >= 10 - < 20 |
| | (Part B) Benzyl alcohol | >= 30 - < 50 |
| | (Part B) Isophoronediamine | >= 20 - < 30 |
| | (Part B) Adduct IXA (Epoxy Amine Adduct) | >= 10 - < 20 |
| | (Part B) m-phenylenebis(methylamine) | >= 10 - < 20 |
| | (Part B) Phenol, 4-dodecyl-, branched | >= 1 - < 5 |
| Sikafloor®-161 | (Part A) Quartz (SiO ₂) >5µm | >= 30 - < 50 |
| | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 30 - < 50 |

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|--|---|------------------------------|
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | >= 1 - < 5 |
| | (Part B) Benzyl alcohol | >= 30 - < 50 |
| | (Part B) Adduct IXA (Epoxy Amine Adduct) | >= 10 - < 20 |
| | (Part B) Isophoronediamine | >= 10 - < 20 |
| | (Part B) m-phenylenebis(methylamine) | >= 10 - < 20 |
| | (Part B) Phenol, 4-dodecyl-, branched | >= 1 - < 5 |
| | (Part B) 2,4,6-tris(dimethylaminomethyl)phenol | >= 1 - < 5 |
| Sikafloor®-1620 | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 50 - < 70 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | >= 5 - < 10 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 1 - < 5 |
| | (Part B) Isophoronediamine | >= 30 - < 50 |
| | (Part B) m-phenylenebis(methylamine) | >= 10 - < 20 |
| | (Part B) 4-tert-butylphenol | >= 10 - < 20 |
| | (Part B) Cycloaliphatic polyamine (trade secret) | >= 10 - < 20 |
| | (Part B) Polyoxypropylenediamine | >= 10 - < 20 |
| Sikafloor®-165 FS | (Part B) Benzyl alcohol | >= 10 - < 20 |
| | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 55 - < 65 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 25 - < 35 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | >= 10 - < 20 |
| | (Part B) benzyl alcohol | >= 30 - < 50 |
| | (Part B) m-phenylenebis(methylamine) | >= 10 - < 20 |
| | (Part B) 2-piperazin-1-ylethylamine | >= 10 - < 20 |
| | (Part B) 2,4,6-tris(dimethylaminomethyl)phenol | >= 5 - < 10 |
| | (Part B) 4,4'-isopropylidenediphenol | >= 5 - < 10 |
| | (Part B) Phenol, 4-nonyl-, branched | >= 1 - < 5 |
| | (Part B) salicylic acid | >= 1 - < 5 |
| | (Part B) Isophoronediamine | >= 1 - < 5 |
| | (Part B) Benzyl dimethylamine | >= 1 - < 5 |
| | (Part B) bis[(dimethylamino)methyl]phenol | >= 1 - < 5 |
| (Part B) 2-(2-aminoethylamino)ethanol | >= 0.1 - < 1 | |
| Sikafloor®-19 NA PurCem® & Sikafloor®-19 NA PurCem® FS | (Part A) Butane-1,4-diol | >= 1 - < 5 |
| | (Part A) barium sulfate | >= 1 - < 5 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 50 - < 70 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate | >= 10 - < 20 |
| | (Part C) Quartz (SiO2) >5µm | >= 70 - < 90 |
| Sikafloor®-200 C ESD | (Part C) Cement | >= 10 - < 20 |
| | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 30 - < 50 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |
| | (Part A) Quartz (SiO2) | >= 5 - < 10 |
| | (Part A) 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane | >= 5 - < 10 |
| | (Part A) benzyl alcohol | >= 1 - < 5 |
| (Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | >= 1 - < 5 | |

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|--|--|------------------------------|
| | (Part A) Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | >= 0.1 - < 1 |
| | (Part B) Polyoxypropylene diamine | >= 30 - < 50 |
| | (Part B) Phenol, 4-nonyl, branched | >= 30 - < 50 |
| | (Part B) P-tert-butylphenol (PTBP) | >= 10 - < 20 |
| | (Part B) 2-piperazin-1-ylethylamine | >= 5 - < 10 |
| | (Part B) m-phenylenebis(methylamine) | >= 5 - < 10 |
| | (Part B) Trimethylhexane-1,6-diamine | >= 5 - < 10 |
| | (Part C) benzyl alcohol | >= 30 - < 50 |
| | (Part C) Polyamine amide salt | >= 30 - < 50 |
| | (Part C) solvent naphtha (petroleum), light arom. | >= 1 - < 5 |
| | (Part C) 1,2,4-trimethylbenzene | >= 1 - < 5 |
| | (Part C) cumene | >= 0.1 - < 1 |
| Sikafloor®-217 | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 50 - < 70 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | >= 5 - < 10 |
| | (Part A) Benzyl alcohol | >= 1 - < 5 |
| | (Part A) ethyl 4-[[[(methylphenyla-mino)methylene]amino]benzoate | >= 1 - < 5 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 1 - < 5 |
| | (Part A) P-tert-butylphenyl-1-(2,3-epoxy)propyl ether | >= 1 - < 5 |
| | (Part B) benzyl alcohol | >= 30 - < 50 |
| | (Part B) Isophoronediamine | >= 20 - < 30 |
| | (Part B) Adduct TMA | >= 10 - < 20 |
| | (Part B) 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine | >= 10 - < 20 |
| | (Part B) Phenol, 4-dodecyl-, branched | >= 5 - < 10 |
| Sikafloor®-218 DF | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 70 - < 90 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | >= 5 - < 10 |
| | (Part A) ethyl 4-[[[(methylphenyla-mino)methylene]amino]benzoate | >= 1 - < 5 |
| | (Part A) Benzyl alcohol | >= 1 - < 5 |
| | (Part B) benzyl alcohol | >= 30 - < 50 |
| | (Part B) Isophoronediamine | >= 20 - < 30 |
| | (Part B) Adduct TMA | >= 10 - < 20 |
| | (Part B) 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine | >= 10 - < 20 |
| | (Part B) Phenol, 4-dodecyl-, branched | >= 5 - < 10 |
| Sikafloor®-22 NA PurCem® & Sikafloor®-22 NA PurCem® FS | (Part A) butane-1,4-diol | >= 1 - < 5 |
| | (Part A) Barium sulfate | >= 1 - < 5 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 50 - < 70 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate (MDI) | >= 10 - < 20 |
| | (Part C) Quartz (SiO2) <5µm | >= 70 - < 90 |
| (Part C) Portland cement | >= 20 - < 30 | |
| Sikafloor®-220 W | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 30 - < 50 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|--|---|------------------------------|
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl] derivatives | >= 1 - < 5 |
| | (Part B) Talc | >= 5 - < 10 |
| | (Part B) 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine | >= 1 - < 5 |
| | (Part B) Isophoronediamine | >= 0.1 - < 1 |
| Sikafloor®-225 N | Part A) bisphenol-A-(epichlorhydrin), homopolymer | >= 50 - < 100 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl] derivatives | >= 5 - < 10 |
| | (Part A) 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane | >= 2 - < 5 |
| | 2-methylpentane-2,4-diol | >= 2 - < 5 |
| Sikafloor®-24 NA PurCem & Sikafloor®-24 NA PurCem FS | (Part A) butane-1,4-diol | >= 1 - < 5 |
| | (Part A) Barium sulfate | >= 1 - < 5 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 50 - < 70 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate (MDI) | >= 10 - < 20 |
| | (Part C) Quartz (SiO2) | >= 50 - < 70 |
| Sikafloor®-2540 | (Part C) Cement | >= 30 - < 50 |
| | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 30 - < 50 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl] derivatives | >= 1 - < 5 |
| | (Part B: neutral/gloss option) Barium sulfate | >= 10 - < 20 |
| | (Part B: neutral/gloss option) 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine | >= 5 - < 10 |
| | (Part B: neutral/gloss option) Isophoronediamine | >= 1 - < 5 |
| | (Part B: neutral/gloss option) m-phenylenebis (methylamine) | >= 1 - < 5 |
| | (Part B: neutral/gloss option) 2,4,6-tris(dimethylaminomethyl)phenol | >= 1 - < 5 |
| | (Part B: neutral/gloss option) Poly(oxy-1,2-ethanediyl), al-phaisotridecyl-omega-hydroxy-, phosphate | >= 1 - < 5 |
| | (Part B: neutral/matte option) Barium sulfate | >= 20 - < 30 |
| | (Part B: neutral/matte option) Aminopolymer | >= 10 - < 20 |
| | (Part B: neutral/matte option) Isophoronediamine | >= 1 - < 5 |
| | (Part B: neutral/matte option) Poly(oxy-1,2-ethanediyl), al-phaisotridecyl-omega-hydroxy-, phosphate | >= 1 - < 5 |
| | (Part B: neutral/matte option) 3,6,9-triazaundecamethylenediamine | >= 0.1 - < 1 |
| | (Part B: neutral/matte option) Quartz (SiO2) <5µm | >= 0.1 - < 1 |
| | (Part B: neutral/satin option) 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine | >= 1 - < 5 |
| | (Part B: neutral/satin option) Polyoxypropylenediamine | >= 1 - < 5 |
| | (Part B: neutral/satin option) 2,4,6-tris(dimethylaminomethyl)phenol | >= 1 - < 5 |
| | (Part B: neutral/satin option) Isophoronediamine | >= 1 - < 5 |
| | (Part B: neutral/satin option) m-phenylenebis (methylamine) | >= 1 - < 5 |
| (Part B: neutral/satin option) Poly(oxy-1,2-ethanediyl), al-phaisotridecyl-omega-hydroxy-, phosphate | >= 1 - < 5 | |
| (Part B: neutral/satin option) benzyl alcohol | >= 1 - < 5 | |
| (Part B: neutral/satin option) 1-methoxy-2-propanol | >= 1 - < 5 | |

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|---|---|---|
| Sikafloor®-2570 | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 25 - < 50 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 10 - < 20 |
| | (Part B) 2,4,6-tris(dimethylaminomethyl)phenol | >= 2 - < 3 |
| | (Part B) m-phenylenebis(methylamine) | >= 1 - < 2 |
| | (Part B) Cashew, nutshell liq. | >= 1 - < 2 |
| | (Part B) Dimethylaminopropylamine | >= 1 - < 2 |
| | (Part B) 1,2-diaminoethane | >= 0.1 - < 1 |
| | (Part B) Phenol | < 1 |
| Sikafloor®-264 | (Part A) Quartz (SiO ₂) > 5µm | >= 30 - < 50 |
| | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | >= 30 - < 50 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 5 - < 10 |
| | (Part A) oxirane, mono[(C12-14-alkyloxy)methyl] derivatives | >= 1 - < 5 |
| | (Part A) bisphenol-F-(epichlorhydrin) epoxy resin | >= 1 - < 5 |
| | (Part A) P-tert-butylphenyl-1-(2,3-epoxy)propyl ether | >= 1 - < 5 |
| | (Part B) Benzyl alcohol | >= 30 - < 50 |
| | (Part B) Adduct IXA (Epoxy Amine Adduct) | >= 10 - < 20 |
| | (Part B) Isophoronediamine | >= 10 - < 20 |
| | (Part B) m-phenylenebis(methylamine) | >= 10 - < 20 |
| | (Part B) Phenol, 4-dodecyl-, branched | >= 1 - < 5 |
| | (Part B) 2,4,6-tris(dimethylaminomethyl)phenol | >= 1 - < 5 |
| | Sikafloor®-265 | (Part A) bisphenol-A-(epichlorhydrin) epoxy resin |
| (Part A) 2,2-bis(acryloyloxymethyl)butyl acrylate | | >= 10 - < 20 |
| (Part A) bisphenol-A-(epichlorhydrin) epoxy resin | | >= 5 - < 10 |
| (Part A) oxirane, mono[(C12-14-alkyloxy)methyl] derivatives | | >= 5 - < 10 |
| (Part A) Phenol, 4-nonyl, branched | | >= 5 - < 10 |
| (Part A) Benzyl alcohol | | >= 1 - < 5 |
| (Part A) Distillates (petroleum), hydrotreated light | | >= 1 - < 5 |
| (Part B) Phenol, 4-nonyl, branched | | >= 30 - < 50 |
| (Part B) Isophoronediamine | | >= 10 - < 20 |
| (Part B) 2-piperazin-1-ylethylamine | | >= 5 - < 10 |
| (Part B) Amines, coco alkyl | | >= 5 - < 10 |
| (Part B) 2,4,6-tris(dimethylaminomethyl)phenol | | >= 1 - < 5 |
| (Part B) Benzyl alcohol | | >= 1 - < 5 |
| Sikafloor®-29 NA PurCem & Sikafloor®-29 NA PurCem | (Part A) butane-1,4-diol | >= 1 - < 5 |
| | (Part A) Barium sulfate | >= 1 - < 5 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 50 - < 70 |
| | (Part B) Diphenylmethanediisocyanate, isomeres and homologues | >= 30 - < 50 |
| | (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate (MDI) | >= 10 - < 20 |
| | (Part C) Quartz (SiO ₂) | >= 70 - < 90 |
| Sikafloor®-304 W NA | (Part C) Cement | >= 10 - < 20 |
| | (Part A) distillates (petroleum), solvent-dewaxed heavy paraffinic | >= 1 - < 5 |
| | (Part B) Aliphatic polyisocyanate | >= 90 - <= 100 |
| | (Part B) Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate | >= 1 - < 5 |

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|---|--|------------------------------|
| | (Part B) Cyclohexyldimethylamine | >= 0.1 - < 1 |
| | (Part B) hexamethylene-di-isocyanate | >= 0.1 - < 1 |
| Sikafloor®-305 W NA | (Part A) Barium sulfate | >= 20 - < 30 |
| | (Part A) Quartz (SiO ₂) > 5µm | >= 0.1 - < 1 |
| | (Part B) Aliphatic polyisocyanate | >= 90 - <= 100 |
| | (Part B) Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate | >= 1 - < 5 |
| | (Part B) Cyclohexyldimethylamine | >= 0.1 - < 1 |
| | (Part B) hexamethylene-di-isocyanate | >= 0.1 - < 1 |
| | Sikafloor®-31 NA PurCem® & Sikafloor®-31 NA PurCem® FS | (Part A) Butane-1,4-diol |
| (Part A) Barium sulfate | | >= 1 - < 5 |
| (Part B) 4,4'-methylenediphenyl diisocyanate | | >= 50 - < 70 |
| (Part B) Diphenylmethanediisocyanate, isomeres and homologues | | >= 30 - < 50 |
| (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate (MDI) | | >= 10 - < 20 |
| (Part C) Portland cement | | >= 90 - < 100 |
| (Part C) Quartz (SiO ₂) <5µm | | >= 0.1 - < 1 |
| Sikafloor®-315 N | (Part A) Ethanediol | >= 10 - < 20 |
| | (Part A) Glycerol | >= 5 - < 10 |
| | (Part A) Hydroxyphenyl-benzotriazol derivates | >= 1 - < 5 |
| | (Part A) Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | >= 1 - < 5 |
| | (Part B) Aliphatic polyisocyanate | >= 90 - < 100 |
| | (Part B) Hexamethylene-di-isocyanate | >= 0.1 - < 1 |
| | (Part C) Aluminium oxide | 100 |
| Sikafloor®-316 N | (Part A) ethanediol | >= 20 - < 30 |
| | (Part A) glycerol | >= 5 - < 10 |
| | (Part A) 2-methoxy-1-methylethyl acetate | >= 1 - < 5 |
| | (Part A) diethylene glycol | >= 1 - < 5 |
| | (Part A) phosphor acid polyester | >= 1 - < 5 |
| Sikafloor®-330 | (Part A) Barium sulfate | >= 20 - < 30 |
| | (Part A) Talc | >= 1 - < 5 |
| | (Part A) 2-ethylhexane-1,3-diol | >= 1 - < 5 |
| | (Part A) Quartz (SiO ₂) <5µm | >= 0.1 - < 1 |
| | (Part B) 4,4'-methylenediphenyl diisocyanate | >= 50 - < 70 |
| | (Part B) Aromatic isocyanate-prepolymer | >= 20 - < 30 |
| | (Part B) 4,4'-Methylenediphenyl diisocyanate, oligomers | >= 20 - < 30 |
| (Part B) o-(p-isocyanatobenzyl)phenyl isocyanate | >= 0.1 - < 1 | |
| Sikafloor®-340 | (Part A) 2-methoxy-1-methylethyl acetate | >= 30 - < 50 |
| | (Part A) tert-butyl acetate | >= 5 - < 10 |
| | (Part B) Aliphatic polyisocyanate | >= 90 - < 100 |
| | (Part B) solvent naphtha (petroleum), light arom. | >= 5 - < 10 |
| | (Part B) hexamethylene-di-isocyanate | >= 0.1 - < 1 |
| Sikafloor®-511 | (Part A) bis(4-(1,2-bis(ethoxycarbonyl) ethylamino)-3-methylcyclohexyl)methane | >= 30 - < 50 |

| Products | Hazardous Ingredients ² | Concentration in part (%w/w) |
|------------------------------------|---|------------------------------|
| | (Part A) Aspartic ester | >= 30 - < 50 |
| | (Part A) Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester | >= 20 - < 30 |
| | (Part A) Distillates (petroleum), hydrotreated light | >= 1 - < 5 |
| | (Part A) Hydroxyphenyl-benzotriazol derivates | >= 0.1 - < 1 |
| | (Part A) Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl) -4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | >= 0.1 - < 1 |
| Sikafloor®-Decorative Quartz | Quartz (SiO ₂) | >= 50 - < 100 |
| | Titanium dioxide | >= 1 - < 2 |
| | Carbon black | >= 0 - < 1 |
| | Cobalt titanite green spinel | >= 0 - < 1 |
| Sikafloor®-SCO Color | Barium sulfate | >= 20 - < 30 |
| Sikafloor®-Urethane Color Additive | n-butyl acetate | >= 2 - < 5 |
| | 2-methoxy-1-methylethyl acetate | >= 2 - < 5 |
| | Dipropylene glycol methylether | >= 2 - < 5 |

3. Scope of EPD

3.1. Functional unit

The functional unit of this cradle-to-grave EPD is defined as follows:

One square meter (1 m²) of covered and protected flooring surface for a period of 60 years

To determine the amount of product needed to satisfy the functional unit, a service life is estimated. The values for the resinous and cementitious flooring systems are reported in **Error! Reference source not found.** For each floor system, there are at least two different service life values: a technical service life, for which coating systems are designed, and a market service life, a typical period after which users replace coating systems. These values may differ depending on whether the application is commercial or industrial.

Table 4: Estimated service life in years

| System | Coating type | For commercial application [†] | | For industrial application ^{††} | |
|--|--------------|---|------------------------|--|------------------------|
| | | Market service life | Technical service life | Market service life | Technical service life |
| Sika ComfortFloor [®] 23 | SLBS | 20 | 30 | - | - |
| Sika ComfortFloor [®] 65 | SLBS* | 20 | 30 | - | - |
| Sikafloor [®] DecoDur [®] Flake | SLBS | 20 | 30 | - | - |
| Sikafloor [®] DecoDur [®] Granite | SLBS | 20 | 30 | - | - |
| Sikafloor [®] DecoDur [®] Metallic | TM | 10 | 15 | - | - |
| Sikafloor [®] DecoDur [®] Quartz | SLBS | 20 | 30 | 10 | 15 |
| Sikafloor [®] ESD | TM | - | - | 5 | 5 |
| Sikafloor [®] Merflex [®] ES | SLBS | - | - | 10 | 15 |
| Sikafloor [®] Merflex [®] PS | SLBS | - | - | 10 | 15 |
| Sikafloor [®] MultiDur [®] EC | TM | - | - | 5 | 5 |
| Sikafloor [®] MultiDur [®] HS | TM | - | - | 5 | 5 |
| Sikafloor [®] PurCem [®] TG | MMMT | - | - | 20 | 30 |
| Sikafloor [®] PurCem [®] SL+** | SLBS | - | - | 10 | 15 |
| Sikafloor [®] PurCem [®] SL | SLBS | - | - | 10 | 15 |
| Sikafloor [®] PurCem [®] VG | MMMT | - | - | 20 | 30 |
| Pulastic Classic 90 | SLBS | 20 | 30 | - | - |

Legend

TM: Thin-mil floor coating

SLBS: Self-levelling or broadcast slurry floor coating

MMMT: Mortar/monolithic mortar/terrazzo floor coating

- : not applicable

* The Sika ComfortFloor[®] 65 system was classified as an SLBS type coating system, although according to its thickness it should be classified as MMMT

** Sikafloor[®] PurCem[®] SL+ is classified as SLBS as it is self-leveling polyurethane cementitious slurry systems.

[†]Values taken from table 1 in the PCR for resinous floor coatings (NSF, 2018).

^{††}Values taken from table 2 in the PCR for resinous floor coatings (NSF, 2018).

3.2. System boundaries

This cradle-to-grave LCA includes modules related to the production, construction, use, and end-of-life stages as shown in **Error! Reference source not found.** and described in this section. All modules required by the PCR for

resinous floor coatings from NSF were included. Figure 2 shows the cradle-to-grave processes for resinous and cementitious floor coating systems included in this EPD.

Table 5: Life cycle stages included or not included in the system boundaries

| Production stage | | | Construction stage | | Use stage | | | | | | | End-of-life stage | | | | |
|------------------|-----------|---------------|--------------------|--------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|---------------------------|-----------------|------------------|----------|------------------------------------|
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| Raw materials | Transport | Manufacturing | Transport to site | Installation | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | Deconstruction demolition | Waste transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential |
| x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | MNI |

Legend:

X: included in the system boundaries MNI: Module not included

A1 – RAW MATERIAL SUPPLY

Coatings are composed of components made of many different ingredients (intermediate materials), such as epoxy for resinous components or cement and sand for cementitious components. They are manufactured in other parts of the United States, Canada, Europe and Asia. This module includes the production of the ingredients needed for the mixing at the Sika plants, including raw material extraction and transformation, and energy production.

A2 – TRANSPORT TO MANUFACTURING PLANTS

Materials are transported from suppliers to Sika’s manufacturing plants by truck and boat if shipped from overseas. This module includes the transport air emissions as well as fuel, vehicles, and infrastructure production. Primary data on transportation distances and modes were used.

A3 – MANUFACTURING

This module covers the manufacturing of coating components in liquid or powder form.

Once delivered to the Sika manufacturing plant, liquid materials for resinous components are stored until their use. Then, materials are mixed together in a tank according to a recipe. The mix goes through quality control, is packed in polyethylene (PE) or metallic pails and stored until shipping. Cardboard is also used for packaging.

The manufacturing of cementitious components involves mainly powders. Powder ingredients are shipped to the Sika plant and stored until their use. Then, materials are mixed together with a powder mixer according to a recipe. The result goes through quality control, is packed in paper bags, and stored until shipping. Cardboard is also used during packaging.

Electricity is the main source of energy used at the manufacturing plant. In Ohio, (RFCW grid subregion) the electricity grid mix is primarily composed of natural gas and coal. Natural gas is used for heating.

Most of the liquid waste is generated at the mixing stations and is mainly sent to incineration. Solid waste (powders) is generated at the mixer and is mainly sent to recycling.

This module also includes the production and transport of primary packaging for the final products. Sika products are sold in a variety of packaging as described in **Error! Reference source not found.**

Table 6: Packaging description

| Packaging type | End-of-life treatment | Mass (in kg)** | Source | Biogenic carbon content*** (kg C) |
|-------------------------------|-----------------------|----------------|------------------|-----------------------------------|
| Paper bag (contains 35 lb) | Landfill | 0.07 | Estimated | 0.42 |
| Paper bag (contains 39.66 lb) | Landfill | 0.08 | Estimated | 0.42 |
| Paper bag (contains 43.96 lb) | Landfill | 0.08 | Estimated | 0.42 |
| Paper bag (contains 45.21 lb) | Landfill | 0.09 | Estimated | 0.42 |
| Paper bag (contains 47.92 lb) | Landfill | 0.09 | Estimated | 0.42 |
| Paper bag (contains 50 lb) | Landfill | 0.09 | Estimated | 0.42 |
| Metallic can (0.5 pint) | Landfill* | 0.45 | Sika Corporation | 0 |
| Metallic can (1 gallon) | Landfill* | 0.61 | Sika Corporation | 0 |
| Plastic pail (1 gallon) | Landfill | 0.42 | Sika Corporation | 0 |
| Plastic pail (2 gallons) | Landfill | 0.45 | Sika Corporation | 0 |
| Metallic pail (2 gallons) | Landfill* | 0.7 | Sika Corporation | 0 |
| Metallic pail (5 gallons) | Landfill* | 1.86 | Sika Corporation | 0 |
| Plastic jug (1 gallon) | Landfill | 0.21 | Estimated | 0 |
| Carton (box) (contains 50 lb) | Landfill | 0.3 | Estimated | 0.46 |
| Metallic can (12 oz) | Landfill* | 0.35 | Estimated | 0 |

* Metallic containers may be recycled at the construction site, especially in a LEED project. However, it was judged that it would not be a representative case of how this packaging waste is usually treated.

** Values take into account secondary packaging (lids)

*** Source: ecoinvent (default 50 % C-content assumption)

A4 – TRANSPORT TO SITE

Coating components, including their packaging, are transported from the manufacturing plant to their distributor warehouse and project sites by truck. This module includes the transport air emissions as well as fuel, vehicles, and infrastructure production. The default PCR transportation modes and distances were used (402 km by truck³ to distribution center, 804 km by truck³ to the point of sale and 8 km by passenger car to application site).

A5 – INSTALLATION

For the resinous and cementitious flooring systems, this module includes installing the floor coating system by applying the components on a floor substrate one after another. Each coat requires curing time, during which it is assumed that VOC content is emitted to air. A low-speed drill and Exomixer is used for installation, using 0.05

³ 17.5 metric ton load, with no empty returns

kWh electricity per average kit or 0-12.5 Wh electricity/kg product, with electricity source modelled as a medium voltage United States grid mix.

A small amount of product (2%) is not used and becomes waste. The production of this waste amount (modules A1 to A4) is included in this module as well as its disposal, in conformance with the PCR for resinous floor coatings. Unused solvent-based coatings are assumed to be incinerated, while water-based solvents are assumed to be landfilled. The disposal of product packaging is also included in this module.

B1 – USE

Once the product is cured, the use stage starts. No impacts associated with this module have been calculated. It is assumed that no CO₂ uptake or emissions from calcination and carbonation occur.

B2 – MAINTENANCE

Although maintenance requirements can significantly vary between systems, the same regular cleaning was considered based on assumptions from the PCR for the resinous and cementitious flooring systems. It includes the production of a moderate foaming detergent, as recommended by Sika Corp. The detergent is assumed to be used in a ratio of ½ cup to 1 gallon mop water, times a total of 220 cleaning events both as specified by the PCR.

B3 – REPAIR / B4 – REPLACEMENT / B5 – REFURBISHMENT

It was assumed that repairs (module B3) are negligible during the whole product service lifetime and were therefore not considered for any system. Recoats are needed to reach the 60-year building lifetime defined by the functional unit. Impacts of the replacement scenarios described in Table 7 for each system were calculated in the same way as in the production and construction stages (A1 to A5 modules).

Table 7: Replacement scenarios of the resinous and cementitious flooring systems

| System | Replacement scenario |
|------------------------------|---|
| Sika ComfortFloor® 23 | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sika ComfortFloor® 65 | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® DecoDur® Flake | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® DecoDur® Granite | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® DecoDur® Metallic | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® DecoDur® Quartz | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® ESD | Check adhesion to the substrate, if OK apply new electrostatic isolation layer, then recoat entire system |
| Sikafloor® Merflex® ES | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® Merflex® PS | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® MultiDur® EC | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® MultiDur® HS | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® PurCem® TG | Check adhesion to the substrate, if OK, refresh polish or overcoat with alternate solution. |
| Sikafloor® PurCem® SL+ | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® PurCem® SL | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Sikafloor® PurCem® VG | Check adhesion to the substrate, if OK, refurbish with new top coats |
| Pulastic Classic 90 | Check adhesion to the substrate, if OK, refurbish with new top coats |

No impact was reported in module B5, since no refurbishment takes place.

B6 – OPERATIONAL ENERGY USE AND B7 – OPERATIONAL WATER USE

No impact was reported in these modules, since the floor systems consume neither energy nor water.

C1 – DECONSTRUCTION/DEMOLITION

It is considered that no impact from the deconstruction or demolition is attributable to the studied products since they are not likely to be separated from the substrate and recovered from deconstruction or demolition waste.

C2 – WASTE TRANSPORT

Applied coatings are transported to landfill as well as water-based unused coatings from installation (A5 and B1) and replacement (B4). Unused solvent-based coatings from these modules are sent to incineration for energy recovery. This module includes the transport air emissions as well as fuel, vehicles, and infrastructure production. The default PCR transportation modes and distances were used.

C3 – WASTE PROCESSING

All unused solvent-based coatings from the A5 and B4 modules are assumed to be incinerated for energy recovery at their end-of-life, as prescribed by the PCR. Credits for energy recovery are considered negligible and are not accounted for in module D.

C4 – DISPOSAL

All applied coatings (100%) are assumed to be sent to landfill, as prescribed by the PCR.I.

3.3. Geographical and temporal boundaries

The geographical boundaries are representative of current equipment and processes associated with resinous floor coating system manufacturing, use and disposal in the United States. Since the data were collected for the year 2022, they are considered temporally representative (i.e., less than 5 years old). All data were modelled using the ecoinvent 3.9.1 database released in 2022 (ecoinvent, 2022), which meets the PCR requirements.

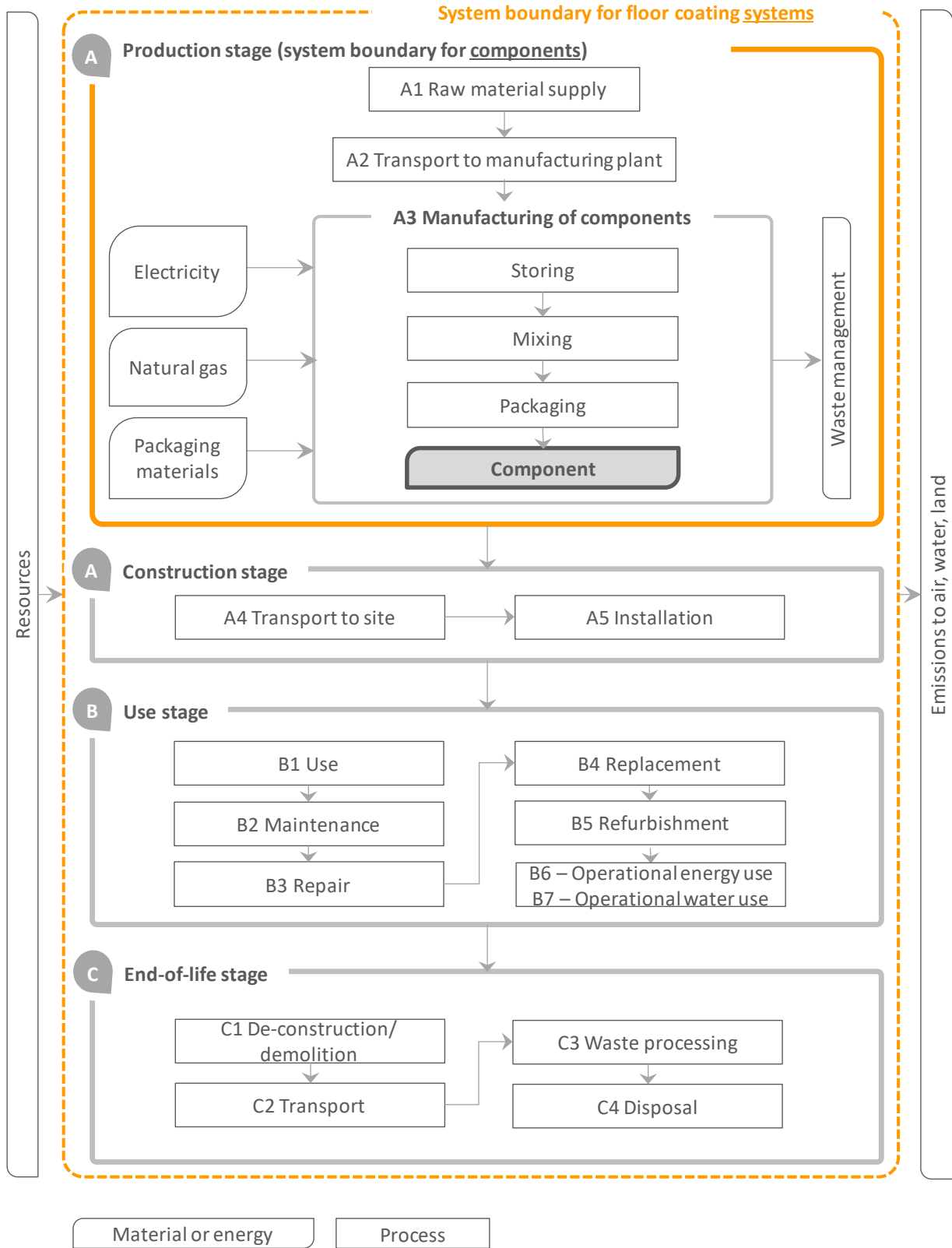


Figure 2: Process flow for all life cycle modules included

4. Potential environmental impacts assessment

This cradle-to-grave LCA has been conducted according to ISO 14040 and 14044 standards and the PCR for Resinous Floor Coatings (NSF, 2018). Potential environmental impacts were calculated with the impact assessment method TRACI 2.1 (US EPA, 2012). The description of these reported indicators is provided in the glossary (section 6.2).

4.1. Assumptions

When specific data were not available, generic data which fulfilled the minimum criteria of the PCR were used. The ecoinvent database v3.8 recycled content allocation served as the main source of secondary data. It should be noted that most, though not all, of the data within ecoinvent are of European origin and developed to represent European industrial conditions and processes. Therefore, in some cases, these modules were further adapted in order to enhance their representativeness of the products and contexts being examined. However, in the recent updates of the ecoinvent database, a lot of efforts has been put into creating market groups for regions, countries and products. Other assumptions included in this LCA were related to raw material modelling, colors and transportation.

It was also assumed that no emissions or uptake from calcination or carbonation take place during the life cycle of the flooring products.

4.2. Criteria for the exclusion of inputs and outputs

Processes or elementary flows may be excluded if the life cycle inventory (LCI) data amounts to a minimum of 95 % of total inflows in terms of mass and energy to the upstream and core module. The following processes were excluded from the study due to their expected low contribution and the lack of readily available data:

- Personnel impacts
- Research and development activities
- Business travel
- Any secondary packaging
- All point-of-sale infrastructure
- Coating applicator

4.3. Data quality

Data sources

Specific data were collected from Sika Corporation for operations occurring in 2022 (less than 5 years old). **Generic data** collected for the upstream and downstream stages were representative of the American context and technologies used.

The LCA model was developed with the SimaPro 9.5 software using ecoinvent 3.8 database, which was released in 2021. Since most of the data within ecoinvent is of European origin and produced to represent European industrial conditions and processes, several data were adapted to enhance their representativeness of the products and contexts being assessed.

Data quality

The overall data quality ratings show that the data used were good. This data quality assessment confirms the high reliability, representativeness (technological, geographical and time-related), completeness, and consistency of the information and data used for this study.

4.4. Allocation

Allocation of multi-output processes

When unavoidable, allocation was done by mass, or other physical relationship. Economic value allocation was not used.

Allocation at Sika's manufacturing plant

Sika's plants produce many different products, including several that are not part of the scope of this study. Product ingredients were available for each product and did not need to be allocated. However, general inputs such as electricity, natural gas, and water were allocated based on the production volume in tonnes. Percentages were calculated by the manufacturers through the data collection.

Allocation for end-of-life processes

As stated in the PCR, a recycled content approach (i.e., cut-off approach) was applied when a product is recycled. The impacts associated with the recycling process are thus attributed to the products using these materials.

Ecoinvent processes with allocation

Many of the processes in the ecoinvent database also provide multiple functions, and allocation is required to provide inventory data per function (or per process). This study accepts the allocation method used by ecoinvent for those processes. The ecoinvent system model used was "Allocation, cut-off". It should be noted that the allocation methods used in ecoinvent for background processes (i.e., processes representing the complete supply chain of a good or service used in the life cycle of a floor covering system) may be inconsistent with the approach used to model the foreground system (i.e., to model the manufacturing of a floor covering system with data collected in the literature and from manufacturers). While this allocation is appropriate for foreground processes, continuation of this methodology into the background datasets would add complexity without substantially improving the quality of the study.

4.5. Life cycle impact assessment – results

The following tables present the results for 1 m² of floor coating systems over the production, use, and end-of-life stages (A to C) according to each estimated service life in **Error! Reference source not found..** The average coverage of products is considered.

Table 8

Product: **Sika ComfortFloor® 23**

Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.84E+01 | 1.53E+01 | 5.26E-01 | 3.31E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-01 | 2.69E-01 | 2.07E-02 | |
| AP | kg SO ₂ eq. | 7.16E-02 | 5.65E-02 | 3.60E-03 | 1.23E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 7.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.44E-04 | 2.05E-04 | 1.76E-04 | |
| EP | kg N eq. | 5.10E-02 | 4.29E-02 | 6.07E-04 | 1.33E-03 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 4.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E-04 | 1.31E-04 | 3.43E-05 | |
| SFP | kg O ₃ eq. | 1.31E+00 | 7.84E-01 | 1.01E-01 | 2.47E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.66E-02 | 2.36E-03 | 4.36E-03 | |
| ODP | kg CFC-11 eq. | 6.99E-05 | 2.36E-05 | 1.31E-07 | 4.76E-07 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 4.57E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-08 | 2.02E-08 | 8.99E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 2.05E+02 | 1.66E+02 | 7.90E+00 | 3.52E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.90E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E+00 | 1.20E+00 | 5.83E-01 | |
| NRP _M | kg | 3.64E+00 | 3.19E+00 | 0.00E+00 | 6.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 2.05E+02 | 1.66E+02 | 7.90E+00 | 3.52E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.90E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E+00 | 1.20E+00 | 5.83E-01 | |
| RPR _M | kg | 6.94E-01 | 5.96E-01 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 2.65E+01 | 2.10E+01 | 1.16E+00 | 4.49E-01 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 2.70E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.40E-01 | 1.79E-01 | 8.54E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 2.40E-01 | 1.96E-01 | 1.02E-03 | 3.91E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 2.04E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.01E-05 | 1.23E-04 | 6.31E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 1.93E-01 | 1.02E-01 | 0.00E+00 | 5.67E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.42E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.64E-02 | 0.00E+00 | |
| NHWD | kg | 4.54E+00 | 3.41E-01 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E+00 | |
| HLRW | kg | 8.90E-09 | 7.93E-09 | 6.89E-11 | 1.61E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 5.44E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.26E-12 | 5.61E-12 | 3.98E-12 | |
| ILLRW | kg | 1.89E-07 | 1.39E-07 | 2.12E-08 | 3.38E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 1.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.38E-09 | 3.34E-09 | 1.53E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 9

Product: **Sika ComfortFloor® 23**

Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.79E+01 | 1.53E+01 | 5.26E-01 | 3.31E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 7.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-01 | 2.58E-01 | 1.98E-02 | |
| AP | kg SO ₂ eq. | 6.84E-02 | 5.65E-02 | 3.60E-03 | 1.23E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 3.78E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.05E-04 | 1.97E-04 | 1.68E-04 | |
| EP | kg N eq. | 4.98E-02 | 4.29E-02 | 6.07E-04 | 1.33E-03 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 2.11E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-04 | 1.25E-04 | 3.29E-05 | |
| SFP | kg O ₃ eq. | 1.26E+00 | 7.84E-01 | 1.01E-01 | 2.47E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 6.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 2.26E-03 | 4.17E-03 | |
| ODP | kg CFC-11 eq. | 4.71E-05 | 2.36E-05 | 1.31E-07 | 4.76E-07 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 2.28E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.64E-08 | 1.94E-08 | 8.61E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 1.98E+02 | 1.66E+02 | 7.90E+00 | 3.52E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 9.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E+00 | 1.15E+00 | 5.58E-01 | |
| NRP _M | kg | 3.44E+00 | 3.19E+00 | 0.00E+00 | 6.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 1.98E+02 | 1.66E+02 | 7.90E+00 | 3.52E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 9.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E+00 | 1.15E+00 | 5.58E-01 | |
| RPR _M | kg | 7.38E-01 | 5.96E-01 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 2.55E+01 | 2.10E+01 | 1.16E+00 | 4.49E-01 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 1.35E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-01 | 1.72E-01 | 8.18E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 2.39E-01 | 1.96E-01 | 1.02E-03 | 3.91E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 1.02E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.63E-05 | 1.18E-04 | 6.04E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 1.85E-01 | 1.02E-01 | 0.00E+00 | 5.52E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.32E-02 | 0.00E+00 | |
| NHWD | kg | 4.34E+00 | 3.41E-01 | 0.00E+00 | 1.42E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.83E+00 | |
| HLRW | kg | 8.72E-09 | 7.93E-09 | 6.89E-11 | 1.61E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 2.72E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.96E-12 | 5.38E-12 | 3.82E-12 | |
| ILLRW | kg | 1.84E-07 | 1.39E-07 | 2.12E-08 | 3.38E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 6.20E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.11E-09 | 3.20E-09 | 1.47E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 10

Product: **Sika ComfortFloor® 65**

Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|---|----------|------------|----------|----------|----------|--|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.05E+01 | 2.65E+01 | 1.05E+00 | 5.65E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 1.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-01 | 3.24E-01 | 4.04E-02 | |
| AP | kg SO ₂ eq. | 1.23E-01 | 1.02E-01 | 7.14E-03 | 2.21E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 7.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-03 | 2.47E-04 | 3.43E-04 | |
| EP | kg N eq. | 7.60E-02 | 6.63E-02 | 1.21E-03 | 2.13E-03 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 4.12E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.41E-04 | 1.58E-04 | 6.71E-05 | |
| SFP | kg O ₃ eq. | 2.04E+00 | 1.41E+00 | 2.00E-01 | 2.52E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 9.09E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.20E-02 | 2.85E-03 | 8.51E-03 | |
| ODP | kg CFC-11 eq. | 9.75E-05 | 3.32E-05 | 2.60E-07 | 6.69E-07 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 6.33E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.42E-08 | 2.43E-08 | 1.75E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.36E+02 | 3.83E+02 | 1.57E+01 | 7.98E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.74E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E+00 | 1.44E+00 | 1.14E+00 | |
| NRP _M | kg | 7.42E+00 | 6.87E+00 | 0.00E+00 | 1.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.17E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.36E+02 | 3.83E+02 | 1.57E+01 | 7.98E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.74E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.41E+00 | 1.44E+00 | 1.14E+00 | |
| RPR _M | kg | 8.87E-01 | 7.85E-01 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 5.91E+01 | 5.16E+01 | 2.31E+00 | 1.08E+00 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 2.40E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.64E-01 | 2.16E-01 | 1.67E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 4.10E-01 | 3.61E-01 | 2.03E-03 | 7.23E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 2.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.76E-04 | 1.48E-04 | 1.23E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.54E-01 | 2.07E-01 | 0.00E+00 | 4.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.04E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.20E-02 | 0.00E+00 | |
| NHWD | kg | 8.78E+00 | 6.93E-01 | 0.00E+00 | 2.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.04E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.81E+00 | |
| HLRW | kg | 1.34E-08 | 1.22E-08 | 1.38E-10 | 2.35E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 6.02E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-11 | 6.76E-12 | 7.78E-12 | |
| ILLRW | kg | 3.11E-07 | 2.29E-07 | 4.22E-08 | 5.56E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 1.29E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-08 | 4.02E-09 | 3.00E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| GWP | Global warming potential (GWP ₁₀₀) | | | | | SM | Secondary materials | | | | | B1 | Use | | | | |
| AP | Acidification potential | | | | | RSF | Renewable secondary fuels | | | | | B2 | Maintenance | | | | |
| EP | Eutrophication potential | | | | | NRSF | Non-renewable secondary fuels | | | | | B3 | Repair | | | | |
| SFP | Smog formation potential | | | | | FW | Consumption of fresh water | | | | | B4 | Replacement | | | | |
| ODP | Ozone depletion potential | | | | | HWD | Hazardous waste disposed | | | | | B5 | Refurbishment | | | | |
| NRPR _E | Non-renewable primary resources used as an energy carrier | | | | | NHWD | Non-hazardous waste disposed | | | | | B6 | Operational energy use | | | | |
| NRPR _M | Non-renewable primary resources with energy content used as a material | | | | | HLRW | High-level radioactive waste | | | | | B7 | Operational water use | | | | |
| RPR _E | Renewable primary resources used as an energy carrier | | | | | ILLRW | Intermediate/low-level radioactive waste | | | | | C1 | De-construction/Demolition | | | | |
| RPR _M | Renewable primary resources with energy content used as a material | | | | | A1-3 | Production stage | | | | | C2 | Waste transport | | | | |
| RE _{DWPS} | Recovered energy from disposal of waste in previous systems | | | | | A4 | Transport to site | | | | | C3 | Waste processing | | | | |
| ADP _{fossil} | Abiotic depletion potential for fossil resources used as energy and materials | | | | | A5 | Installation | | | | | C4 | Disposal | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 11

Product: **Sika ComfortFloor® 65**

Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.00E+01 | 2.65E+01 | 1.05E+00 | 5.65E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 6.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.15E-01 | 3.16E-01 | 3.95E-02 | |
| AP | kg SO ₂ eq. | 1.19E-01 | 1.02E-01 | 7.14E-03 | 2.21E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 3.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.80E-03 | 2.41E-04 | 3.35E-04 | |
| EP | kg N eq. | 7.48E-02 | 6.63E-02 | 1.21E-03 | 2.12E-03 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.36E-04 | 1.54E-04 | 6.55E-05 | |
| SFP | kg O ₃ eq. | 2.00E+00 | 1.41E+00 | 2.00E-01 | 2.52E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 4.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.08E-02 | 2.78E-03 | 8.31E-03 | |
| ODP | kg CFC-11 eq. | 6.59E-05 | 3.32E-05 | 2.60E-07 | 6.69E-07 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 3.16E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.24E-08 | 2.38E-08 | 1.71E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.30E+02 | 3.83E+02 | 1.57E+01 | 7.98E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 8.70E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.31E+00 | 1.41E+00 | 1.11E+00 | |
| NRP _M | kg | 7.21E+00 | 6.87E+00 | 0.00E+00 | 1.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.30E+02 | 3.83E+02 | 1.57E+01 | 7.98E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 8.70E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.31E+00 | 1.41E+00 | 1.11E+00 | |
| RPR _M | kg | 9.31E-01 | 7.85E-01 | 0.00E+00 | 1.57E-02 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 5.82E+01 | 5.16E+01 | 2.31E+00 | 1.08E+00 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 1.20E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.48E-01 | 2.11E-01 | 1.63E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 4.09E-01 | 3.61E-01 | 2.03E-03 | 7.23E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 1.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-04 | 1.45E-04 | 1.20E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.45E-01 | 2.07E-01 | 0.00E+00 | 4.32E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.99E-02 | 0.00E+00 | |
| NHWD | kg | 8.57E+00 | 6.93E-01 | 0.00E+00 | 2.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.63E+00 | |
| HLRW | kg | 1.32E-08 | 1.22E-08 | 1.38E-10 | 2.35E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 3.01E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-11 | 6.60E-12 | 7.60E-12 | |
| ILLRW | kg | 3.06E-07 | 2.29E-07 | 4.22E-08 | 5.56E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 6.46E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-08 | 3.93E-09 | 2.93E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 12

Product: **Sikafloor® DecoDur® Flake**
 Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 2.29E+01 | 1.35E+01 | 5.46E-01 | 2.87E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 7.80E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 1.74E-01 | 2.68E-02 | |
| AP | kg SO ₂ eq. | 1.11E-01 | 6.53E-02 | 3.73E-03 | 1.40E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 3.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-03 | 1.33E-04 | 2.27E-04 | |
| EP | kg N eq. | 6.10E-02 | 3.46E-02 | 6.31E-04 | 1.08E-03 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 2.27E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.60E-04 | 8.46E-05 | 4.44E-05 | |
| SFP | kg O ₃ eq. | 1.82E+00 | 8.10E-01 | 1.04E-01 | 2.06E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 6.36E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.44E-02 | 1.53E-03 | 5.63E-03 | |
| ODP | kg CFC-11 eq. | 5.11E-05 | 3.08E-05 | 1.36E-07 | 6.20E-07 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 1.94E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.91E-08 | 1.31E-08 | 1.16E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 3.70E+02 | 2.11E+02 | 8.20E+00 | 4.40E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.37E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.92E+00 | 7.74E-01 | 7.53E-01 | |
| NRP _M | kg | 5.41E+00 | 3.93E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 3.70E+02 | 2.11E+02 | 8.20E+00 | 4.40E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.37E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.92E+00 | 7.74E-01 | 7.53E-01 | |
| RPR _M | kg | 1.15E-01 | 2.79E-02 | 0.00E+00 | 5.57E-04 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 4.86E+01 | 2.77E+01 | 1.20E+00 | 5.79E-01 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 1.78E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.39E-01 | 1.16E-01 | 1.10E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.33E-01 | 2.07E-01 | 1.06E-03 | 4.13E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-04 | 7.97E-05 | 8.15E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 2.29E-01 | 1.06E-01 | 0.00E+00 | 3.53E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-02 | 0.00E+00 | |
| NHWD | kg | 5.90E+00 | 3.56E-01 | 0.00E+00 | 1.56E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.17E+00 | |
| HLRW | kg | 1.17E-08 | 6.91E-09 | 7.16E-11 | 1.30E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 4.38E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.38E-12 | 3.63E-12 | 5.15E-12 | |
| ILLRW | kg | 2.25E-07 | 1.12E-07 | 2.20E-08 | 2.76E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 7.44E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.24E-09 | 2.16E-09 | 1.98E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 13

Product: **Sikafloor® DecoDur® Flake**
 Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|---|----------|------------|----------|----------|----------|--|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.92E+01 | 1.35E+01 | 5.46E-01 | 2.86E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 3.90E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-01 | 1.51E-01 | 2.33E-02 | |
| AP | kg SO ₂ eq. | 9.27E-02 | 6.53E-02 | 3.73E-03 | 1.40E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 1.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-03 | 1.15E-04 | 1.98E-04 | |
| EP | kg N eq. | 5.04E-02 | 3.46E-02 | 6.31E-04 | 9.99E-04 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 1.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.39E-04 | 7.36E-05 | 3.86E-05 | |
| SFP | kg O ₃ eq. | 1.50E+00 | 8.10E-01 | 1.04E-01 | 2.06E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 3.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.00E-02 | 1.33E-03 | 4.90E-03 | |
| ODP | kg CFC-11 eq. | 4.14E-05 | 3.08E-05 | 1.36E-07 | 6.20E-07 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 9.71E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.27E-08 | 1.14E-08 | 1.01E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 3.04E+02 | 2.11E+02 | 8.20E+00 | 4.40E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 6.84E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E+00 | 6.74E-01 | 6.55E-01 | |
| NRP _M | kg | 4.71E+00 | 3.93E+00 | 0.00E+00 | 7.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 3.04E+02 | 2.11E+02 | 8.20E+00 | 4.40E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 6.84E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.54E+00 | 6.74E-01 | 6.55E-01 | |
| RPR _M | kg | 1.59E-01 | 2.79E-02 | 0.00E+00 | 5.57E-04 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 3.99E+01 | 2.77E+01 | 1.20E+00 | 5.79E-01 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 8.90E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.82E-01 | 1.01E-01 | 9.60E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 2.91E-01 | 2.07E-01 | 1.06E-03 | 4.13E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 5.09E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-04 | 6.93E-05 | 7.09E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 1.96E-01 | 1.06E-01 | 0.00E+00 | 2.82E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.30E-02 | 0.00E+00 | |
| NHWD | kg | 5.12E+00 | 3.56E-01 | 0.00E+00 | 1.56E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.50E+00 | |
| HLRW | kg | 9.59E-09 | 6.91E-09 | 7.16E-11 | 1.30E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 2.19E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.17E-12 | 3.16E-12 | 4.48E-12 | |
| ILLRW | kg | 1.88E-07 | 1.12E-07 | 2.20E-08 | 2.75E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 3.72E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.17E-09 | 1.88E-09 | 1.73E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| GWP | Global warming potential (GWP ₁₀₀) | | | | | SM | Secondary materials | | | | | B1 | Use | | | | |
| AP | Acidification potential | | | | | RSF | Renewable secondary fuels | | | | | B2 | Maintenance | | | | |
| EP | Eutrophication potential | | | | | NRSF | Non-renewable secondary fuels | | | | | B3 | Repair | | | | |
| SFP | Smog formation potential | | | | | FW | Consumption of fresh water | | | | | B4 | Replacement | | | | |
| ODP | Ozone depletion potential | | | | | HWD | Hazardous waste disposed | | | | | B5 | Refurbishment | | | | |
| NRPR _E | Non-renewable primary resources used as an energy carrier | | | | | NHWD | Non-hazardous waste disposed | | | | | B6 | Operational energy use | | | | |
| NRPR _M | Non-renewable primary resources with energy content used as a material | | | | | HLRW | High-level radioactive waste | | | | | B7 | Operational water use | | | | |
| RPR _E | Renewable primary resources used as an energy carrier | | | | | ILLRW | Intermediate/low-level radioactive waste | | | | | C1 | De-construction/Demolition | | | | |
| RPR _M | Renewable primary resources with energy content used as a material | | | | | A1-3 | Production stage | | | | | C2 | Waste transport | | | | |
| RE _{DWPS} | Recovered energy from disposal of waste in previous systems | | | | | A4 | Transport to site | | | | | C3 | Waste processing | | | | |
| ADP _{fossil} | Abiotic depletion potential for fossil resources used as energy and materials | | | | | A5 | Installation | | | | | C4 | Disposal | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 14

Product: **Sikafloor® DecoDur® Granite**
 Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 2.58E+01 | 2.23E+01 | 7.52E-01 | 4.79E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 1.43E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E-01 | 2.26E-01 | 2.87E-02 | |
| AP | kg SO ₂ eq. | 1.23E-01 | 1.05E-01 | 5.15E-03 | 2.25E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 7.57E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-03 | 1.72E-04 | 2.43E-04 | |
| EP | kg N eq. | 6.89E-02 | 5.99E-02 | 8.68E-04 | 1.96E-03 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 4.23E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.71E-04 | 1.10E-04 | 4.75E-05 | |
| SFP | kg O ₃ eq. | 2.05E+00 | 1.35E+00 | 1.44E-01 | 3.68E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 1.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.69E-02 | 1.98E-03 | 6.03E-03 | |
| ODP | kg CFC-11 eq. | 1.70E-04 | 1.22E-04 | 1.87E-07 | 2.44E-06 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 4.57E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.26E-08 | 1.70E-08 | 1.24E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.72E+02 | 4.23E+02 | 1.13E+01 | 8.75E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.90E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 1.01E+00 | 8.06E-01 | |
| NRRP _M | kg | 5.86E+00 | 5.36E+00 | 0.00E+00 | 1.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.72E+02 | 4.23E+02 | 1.13E+01 | 8.75E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.90E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.13E+00 | 1.01E+00 | 8.06E-01 | |
| RPR _M | kg | 9.54E-02 | 8.45E-03 | 0.00E+00 | 1.69E-04 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 6.33E+01 | 5.64E+01 | 1.66E+00 | 1.17E+00 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 2.70E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.70E-01 | 1.50E-01 | 1.18E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.57E-01 | 3.09E-01 | 1.46E-03 | 6.17E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 2.04E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-04 | 1.03E-04 | 8.73E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 2.50E-01 | 1.44E-01 | 0.00E+00 | 3.25E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.42E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.41E-02 | 0.00E+00 | |
| NHWD | kg | 6.32E+00 | 4.84E-01 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.54E+00 | |
| HLRW | kg | 1.30E-08 | 1.19E-08 | 9.84E-11 | 2.33E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 5.44E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-11 | 4.71E-12 | 5.51E-12 | |
| ILLRW | kg | 2.72E-07 | 2.09E-07 | 3.03E-08 | 5.02E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 1.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.83E-09 | 2.80E-09 | 2.12E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 15

Product: **Sikafloor® DecoDur® Granite**
 Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|---|----------|------------|----------|----------|----------|--|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 2.53E+01 | 2.23E+01 | 7.52E-01 | 4.79E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 7.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-01 | 2.19E-01 | 2.78E-02 | |
| AP | kg SO ₂ eq. | 1.20E-01 | 1.05E-01 | 5.15E-03 | 2.25E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 3.78E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.27E-03 | 1.67E-04 | 2.36E-04 | |
| EP | kg N eq. | 6.77E-02 | 5.99E-02 | 8.68E-04 | 1.94E-03 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 2.11E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.66E-04 | 1.06E-04 | 4.61E-05 | |
| SFP | kg O ₃ eq. | 2.00E+00 | 1.35E+00 | 1.44E-01 | 3.68E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 6.39E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.58E-02 | 1.92E-03 | 5.85E-03 | |
| ODP | kg CFC-11 eq. | 1.47E-04 | 1.22E-04 | 1.87E-07 | 2.44E-06 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 2.28E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.10E-08 | 1.65E-08 | 1.21E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.65E+02 | 4.23E+02 | 1.13E+01 | 8.75E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 9.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 9.75E-01 | 7.82E-01 | |
| NRP _M | kg | 5.66E+00 | 5.36E+00 | 0.00E+00 | 1.07E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.65E+02 | 4.23E+02 | 1.13E+01 | 8.75E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 9.49E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.03E+00 | 9.75E-01 | 7.82E-01 | |
| RPR _M | kg | 1.39E-01 | 8.45E-03 | 0.00E+00 | 1.69E-04 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 6.23E+01 | 5.64E+01 | 1.66E+00 | 1.17E+00 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 1.35E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.56E-01 | 1.46E-01 | 1.15E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.55E-01 | 3.09E-01 | 1.46E-03 | 6.17E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 1.02E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-04 | 1.00E-04 | 8.47E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 2.42E-01 | 1.44E-01 | 0.00E+00 | 3.11E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.71E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-02 | 0.00E+00 | |
| NHWD | kg | 6.13E+00 | 4.84E-01 | 0.00E+00 | 2.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.55E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.37E+00 | |
| HLRW | kg | 1.28E-08 | 1.19E-08 | 9.84E-11 | 2.33E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 2.72E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.75E-12 | 4.57E-12 | 5.35E-12 | |
| ILLRW | kg | 2.67E-07 | 2.09E-07 | 3.03E-08 | 5.02E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 6.20E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.56E-09 | 2.72E-09 | 2.06E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| GWP | Global warming potential (GWP ₁₀₀) | | | | | SM | Secondary materials | | | | | B1 | Use | | | | |
| AP | Acidification potential | | | | | RSF | Renewable secondary fuels | | | | | B2 | Maintenance | | | | |
| EP | Eutrophication potential | | | | | NRSF | Non-renewable secondary fuels | | | | | B3 | Repair | | | | |
| SFP | Smog formation potential | | | | | FW | Consumption of fresh water | | | | | B4 | Replacement | | | | |
| ODP | Ozone depletion potential | | | | | HWD | Hazardous waste disposed | | | | | B5 | Refurbishment | | | | |
| NRPR _E | Non-renewable primary resources used as an energy carrier | | | | | NHWD | Non-hazardous waste disposed | | | | | B6 | Operational energy use | | | | |
| NRP _M | Non-renewable primary resources with energy content used as a material | | | | | HLRW | High-level radioactive waste | | | | | B7 | Operational water use | | | | |
| RPR _E | Renewable primary resources used as an energy carrier | | | | | ILLRW | Intermediate/low-level radioactive waste | | | | | C1 | De-construction/Demolition | | | | |
| RPR _M | Renewable primary resources with energy content used as a material | | | | | A1-3 | Production stage | | | | | C2 | Waste transport | | | | |
| RE _{DWPS} | Recovered energy from disposal of waste in previous systems | | | | | A4 | Transport to site | | | | | C3 | Waste processing | | | | |
| ADP _{fossil} | Abiotic depletion potential for fossil resources used as energy and materials | | | | | A5 | Installation | | | | | C4 | Disposal | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 16

Product: **Sikafloor® DecoDur® Metallic**
 Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market service life: **10 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 9.82E+00 | 5.06E+00 | 1.32E-01 | 1.06E-01 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 4.17E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.39E-02 | 1.09E-01 | 8.01E-03 | |
| AP | kg SO ₂ eq. | 4.66E-02 | 2.41E-02 | 9.07E-04 | 5.13E-04 | 0.00E+00 | 6.70E-04 | 0.00E+00 | 2.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.65E-04 | 8.30E-05 | 6.80E-05 | |
| EP | kg N eq. | 2.42E-02 | 1.42E-02 | 1.52E-04 | 2.94E-04 | 0.00E+00 | 8.56E-04 | 0.00E+00 | 8.55E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.78E-05 | 5.30E-05 | 1.33E-05 | |
| SFP | kg O ₃ eq. | 7.87E-01 | 2.91E-01 | 2.55E-02 | 9.28E-02 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 3.56E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.03E-02 | 9.57E-04 | 1.68E-03 | |
| ODP | kg CFC-11 eq. | 8.94E-05 | 2.05E-05 | 3.28E-08 | 4.12E-07 | 0.00E+00 | 6.68E-09 | 0.00E+00 | 6.84E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.47E-08 | 8.18E-09 | 3.48E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 1.40E+02 | 8.24E+01 | 1.98E+00 | 1.72E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 4.96E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.74E-01 | 4.85E-01 | 2.25E-01 | |
| NRP _M | kg | 1.56E+00 | 8.90E-01 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.54E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 1.40E+02 | 8.24E+01 | 1.98E+00 | 1.72E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 4.96E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.74E-01 | 4.85E-01 | 2.25E-01 | |
| RPR _M | kg | 1.00E-01 | 9.32E-03 | 0.00E+00 | 1.86E-04 | 0.00E+00 | 4.34E-02 | 0.00E+00 | 4.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 1.85E+01 | 1.07E+01 | 2.91E-01 | 2.24E-01 | 0.00E+00 | 3.23E-01 | 0.00E+00 | 6.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.31E-01 | 7.25E-02 | 3.30E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 1.32E-01 | 6.99E-02 | 2.54E-04 | 1.39E-03 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 5.07E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.48E-05 | 4.99E-05 | 2.44E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 7.47E-02 | 2.43E-02 | 0.00E+00 | 5.02E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.09E-02 | 0.00E+00 | |
| NHWD | kg | 1.79E+00 | 8.16E-02 | 0.00E+00 | 6.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.02E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E+00 | |
| HLRW | kg | 3.66E-09 | 2.62E-09 | 1.71E-11 | 5.34E-11 | 0.00E+00 | 9.17E-11 | 0.00E+00 | 8.69E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.81E-12 | 2.27E-12 | 1.54E-12 | |
| ILLRW | kg | 7.08E-08 | 3.95E-08 | 5.33E-09 | 9.87E-10 | 0.00E+00 | 1.14E-09 | 0.00E+00 | 1.94E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.47E-09 | 1.35E-09 | 5.93E-10 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

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Table 17

Product: **Sikafloor® DecoDur® Metallic**
 Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated technical service life: **15 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 8.21E+00 | 5.06E+00 | 1.32E-01 | 1.06E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 2.50E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.28E-02 | 9.00E-02 | 6.62E-03 | |
| AP | kg SO ₂ eq. | 3.89E-02 | 2.41E-02 | 9.07E-04 | 5.13E-04 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 1.20E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.02E-04 | 6.86E-05 | 5.62E-05 | |
| EP | kg N eq. | 2.12E-02 | 1.42E-02 | 1.52E-04 | 2.94E-04 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 5.13E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.95E-05 | 4.38E-05 | 1.10E-05 | |
| SFP | kg O ₃ eq. | 6.47E-01 | 2.91E-01 | 2.55E-02 | 9.28E-02 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 2.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.52E-03 | 7.91E-04 | 1.39E-03 | |
| ODP | kg CFC-11 eq. | 6.20E-05 | 2.05E-05 | 3.28E-08 | 4.12E-07 | 0.00E+00 | 1.00E-08 | 0.00E+00 | 4.10E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-08 | 6.76E-09 | 2.87E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 1.21E+02 | 8.24E+01 | 1.98E+00 | 1.72E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 2.98E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.23E-01 | 4.01E-01 | 1.86E-01 | |
| NRP _M | kg | 1.30E+00 | 8.90E-01 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.93E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 1.21E+02 | 8.24E+01 | 1.98E+00 | 1.72E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 2.98E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.23E-01 | 4.01E-01 | 1.86E-01 | |
| RPR _M | kg | 1.03E-01 | 9.32E-03 | 0.00E+00 | 1.86E-04 | 0.00E+00 | 6.51E-02 | 0.00E+00 | 2.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 1.60E+01 | 1.07E+01 | 2.91E-01 | 2.24E-01 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 4.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.09E-01 | 5.99E-02 | 2.73E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 1.16E-01 | 6.99E-02 | 2.54E-04 | 1.39E-03 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 3.04E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-05 | 4.12E-05 | 2.02E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 6.18E-02 | 2.43E-02 | 0.00E+00 | 5.00E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.56E-02 | 0.00E+00 | |
| NHWD | kg | 1.48E+00 | 8.16E-02 | 0.00E+00 | 6.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E+00 | |
| HLRW | kg | 3.35E-09 | 2.62E-09 | 1.71E-11 | 5.34E-11 | 0.00E+00 | 1.38E-10 | 0.00E+00 | 5.21E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.32E-12 | 1.88E-12 | 1.27E-12 | |
| ILLRW | kg | 6.28E-08 | 3.95E-08 | 5.33E-09 | 9.87E-10 | 0.00E+00 | 1.72E-09 | 0.00E+00 | 1.16E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-09 | 1.12E-09 | 4.90E-10 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 18

Product: **Sikafloor® DecoDur® Quartz**

Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 2.85E+01 | 2.01E+01 | 8.54E-01 | 4.24E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 6.27E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.01E-01 | 1.41E-01 | 3.78E-02 | |
| AP | kg SO ₂ eq. | 1.31E-01 | 8.96E-02 | 5.82E-03 | 1.92E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 3.04E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.72E-03 | 1.07E-04 | 3.21E-04 | |
| EP | kg N eq. | 5.84E-02 | 4.10E-02 | 9.89E-04 | 1.40E-03 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 1.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.25E-04 | 6.85E-05 | 6.26E-05 | |
| SFP | kg O ₃ eq. | 2.52E+00 | 1.24E+00 | 1.63E-01 | 3.07E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 7.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.86E-02 | 1.24E-03 | 7.94E-03 | |
| ODP | kg CFC-11 eq. | 5.90E-05 | 3.09E-05 | 2.12E-07 | 6.22E-07 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 2.72E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.93E-08 | 1.06E-08 | 1.64E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 5.57E+02 | 4.26E+02 | 1.28E+01 | 8.72E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 9.92E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E+00 | 6.27E-01 | 1.06E+00 | |
| NRP _M | kg | 7.65E+00 | 6.30E+00 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 5.57E+02 | 4.26E+02 | 1.28E+01 | 8.72E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 9.92E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E+00 | 6.27E-01 | 1.06E+00 | |
| RPR _M | kg | 1.06E-01 | 1.93E-02 | 0.00E+00 | 3.86E-04 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 7.77E+01 | 5.93E+01 | 1.88E+00 | 1.22E+00 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 1.38E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.20E-01 | 9.37E-02 | 1.56E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 4.07E-01 | 2.90E-01 | 1.66E-03 | 5.80E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 9.02E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-04 | 6.45E-05 | 1.15E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 2.88E-01 | 1.70E-01 | 0.00E+00 | 4.47E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | |
| NHWD | kg | 8.23E+00 | 5.71E-01 | 0.00E+00 | 1.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.30E+00 | |
| HLRW | kg | 1.07E-08 | 8.27E-09 | 1.13E-10 | 1.47E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 1.97E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.32E-11 | 2.94E-12 | 7.26E-12 | |
| ILLRW | kg | 2.90E-07 | 1.91E-07 | 3.44E-08 | 4.47E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 4.24E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-08 | 1.75E-09 | 2.80E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 19

Product: **Sikafloor® DecoDur® Quartz**

Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 2.55E+01 | 2.01E+01 | 8.54E-01 | 4.23E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 3.13E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-01 | 1.30E-01 | 3.47E-02 | |
| AP | kg SO ₂ eq. | 1.17E-01 | 8.96E-02 | 5.82E-03 | 1.91E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 1.52E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-03 | 9.88E-05 | 2.95E-04 | |
| EP | kg N eq. | 5.27E-02 | 4.10E-02 | 9.89E-04 | 1.31E-03 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 6.44E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.07E-04 | 6.30E-05 | 5.76E-05 | |
| SFP | kg O ₃ eq. | 2.16E+00 | 1.24E+00 | 1.63E-01 | 3.07E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 3.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.47E-02 | 1.14E-03 | 7.31E-03 | |
| ODP | kg CFC-11 eq. | 4.54E-05 | 3.09E-05 | 2.12E-07 | 6.22E-07 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 1.36E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.37E-08 | 9.74E-09 | 1.51E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 5.09E+02 | 4.26E+02 | 1.28E+01 | 8.71E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 4.96E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.79E+00 | 5.77E-01 | 9.78E-01 | |
| NRP _M | kg | 7.04E+00 | 6.30E+00 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 5.09E+02 | 4.26E+02 | 1.28E+01 | 8.71E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 4.96E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.79E+00 | 5.77E-01 | 9.78E-01 | |
| RPR _M | kg | 1.50E-01 | 1.93E-02 | 0.00E+00 | 3.86E-04 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 7.10E+01 | 5.93E+01 | 1.88E+00 | 1.22E+00 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 6.89E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.70E-01 | 8.63E-02 | 1.43E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.71E-01 | 2.90E-01 | 1.66E-03 | 5.80E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 4.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-04 | 5.94E-05 | 1.06E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 2.60E-01 | 1.70E-01 | 0.00E+00 | 3.62E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.68E-02 | 0.00E+00 | |
| NHWD | kg | 7.56E+00 | 5.71E-01 | 0.00E+00 | 1.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.71E+00 | |
| HLRW | kg | 9.81E-09 | 8.27E-09 | 1.13E-10 | 1.47E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 9.83E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22E-11 | 2.70E-12 | 6.69E-12 | |
| ILLRW | kg | 2.69E-07 | 1.91E-07 | 3.44E-08 | 4.47E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 2.12E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07E-08 | 1.61E-09 | 2.57E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 20

Product: **Sikafloor® DecoDur® Quartz**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market service life: **10 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.78E+01 | 2.01E+01 | 8.54E-01 | 4.26E-01 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 1.57E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73E-01 | 1.74E-01 | 4.68E-02 | |
| AP | kg SO ₂ eq. | 1.77E-01 | 8.96E-02 | 5.82E-03 | 1.92E-03 | 0.00E+00 | 6.70E-04 | 0.00E+00 | 7.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-03 | 1.33E-04 | 3.97E-04 | |
| EP | kg N eq. | 7.72E-02 | 4.10E-02 | 9.89E-04 | 1.69E-03 | 0.00E+00 | 8.56E-04 | 0.00E+00 | 3.22E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.79E-04 | 8.48E-05 | 7.76E-05 | |
| SFP | kg O ₃ eq. | 3.62E+00 | 1.24E+00 | 1.63E-01 | 3.07E-01 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.82E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.02E-02 | 1.53E-03 | 9.84E-03 | |
| ODP | kg CFC-11 eq. | 9.98E-05 | 3.09E-05 | 2.12E-07 | 6.22E-07 | 0.00E+00 | 6.68E-09 | 0.00E+00 | 6.80E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.58E-08 | 1.31E-08 | 2.03E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 7.05E+02 | 4.26E+02 | 1.28E+01 | 8.72E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 2.48E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.11E+00 | 7.77E-01 | 1.32E+00 | |
| NRP _M | kg | 9.49E+00 | 6.30E+00 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 7.05E+02 | 4.26E+02 | 1.28E+01 | 8.72E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 2.48E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.11E+00 | 7.77E-01 | 1.32E+00 | |
| RPR _M | kg | 6.30E-02 | 1.93E-02 | 0.00E+00 | 3.86E-04 | 0.00E+00 | 4.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 9.82E+01 | 5.93E+01 | 1.88E+00 | 1.22E+00 | 0.00E+00 | 3.23E-01 | 0.00E+00 | 3.44E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.68E-01 | 1.16E-01 | 1.93E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 5.34E-01 | 2.90E-01 | 1.66E-03 | 5.81E-03 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 2.25E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E-04 | 7.99E-05 | 1.43E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.72E-01 | 1.70E-01 | 0.00E+00 | 7.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.23E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.96E-02 | 0.00E+00 | |
| NHWD | kg | 1.02E+01 | 5.71E-01 | 0.00E+00 | 1.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.34E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.04E+00 | |
| HLRW | kg | 1.36E-08 | 8.27E-09 | 1.13E-10 | 1.47E-10 | 0.00E+00 | 9.17E-11 | 0.00E+00 | 4.92E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.64E-11 | 3.64E-12 | 9.00E-12 | |
| ILLRW | kg | 3.56E-07 | 1.91E-07 | 3.44E-08 | 4.49E-09 | 0.00E+00 | 1.14E-09 | 0.00E+00 | 1.06E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.44E-08 | 2.17E-09 | 3.47E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 21

Product: **Sikafloor® DecoDur® Quartz**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **15 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.16E+01 | 2.01E+01 | 8.54E-01 | 4.25E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 9.40E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.25E-01 | 1.52E-01 | 4.08E-02 | |
| AP | kg SO ₂ eq. | 1.46E-01 | 8.96E-02 | 5.82E-03 | 1.92E-03 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 4.56E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.86E-03 | 1.16E-04 | 3.46E-04 | |
| EP | kg N eq. | 6.45E-02 | 4.10E-02 | 9.89E-04 | 1.50E-03 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 1.93E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.43E-04 | 7.39E-05 | 6.76E-05 | |
| SFP | kg O ₃ eq. | 2.88E+00 | 1.24E+00 | 1.63E-01 | 3.07E-01 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 1.09E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25E-02 | 1.34E-03 | 8.58E-03 | |
| ODP | kg CFC-11 eq. | 7.26E-05 | 3.09E-05 | 2.12E-07 | 6.22E-07 | 0.00E+00 | 1.00E-08 | 0.00E+00 | 4.08E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.48E-08 | 1.14E-08 | 1.77E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 6.06E+02 | 4.26E+02 | 1.28E+01 | 8.72E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 1.49E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.45E+00 | 6.77E-01 | 1.15E+00 | |
| NRP _M | kg | 8.27E+00 | 6.30E+00 | 0.00E+00 | 1.26E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 6.06E+02 | 4.26E+02 | 1.28E+01 | 8.72E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 1.49E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.45E+00 | 6.77E-01 | 1.15E+00 | |
| RPR _M | kg | 8.47E-02 | 1.93E-02 | 0.00E+00 | 3.86E-04 | 0.00E+00 | 6.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 8.45E+01 | 5.93E+01 | 1.88E+00 | 1.22E+00 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 2.07E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.69E-01 | 1.01E-01 | 1.68E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 4.48E-01 | 2.90E-01 | 1.66E-03 | 5.80E-03 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-04 | 6.96E-05 | 1.24E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.16E-01 | 1.70E-01 | 0.00E+00 | 5.31E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.94E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.32E-02 | 0.00E+00 | |
| NHWD | kg | 8.90E+00 | 5.71E-01 | 0.00E+00 | 1.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.88E+00 | |
| HLRW | kg | 1.16E-08 | 8.27E-09 | 1.13E-10 | 1.47E-10 | 0.00E+00 | 1.38E-10 | 0.00E+00 | 2.95E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-11 | 3.17E-12 | 7.84E-12 | |
| ILLRW | kg | 3.12E-07 | 1.91E-07 | 3.44E-08 | 4.48E-09 | 0.00E+00 | 1.72E-09 | 0.00E+00 | 6.35E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.26E-08 | 1.89E-09 | 3.02E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 22

Product: **Sikafloor® ESD**
 Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market and technical service life: **5 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 5.67E+01 | 4.37E+00 | 1.42E-01 | 1.10E-01 | 0.00E+00 | 8.68E-02 | 0.00E+00 | 5.08E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.58E-01 | 6.64E-01 | 5.74E-02 | |
| AP | kg SO ₂ eq. | 2.94E-01 | 2.27E-02 | 9.79E-04 | 4.99E-04 | 0.00E+00 | 3.35E-04 | 0.00E+00 | 2.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.62E-03 | 5.07E-04 | 4.87E-04 | |
| EP | kg N eq. | 2.01E-01 | 1.54E-02 | 1.63E-04 | 1.39E-03 | 0.00E+00 | 4.28E-04 | 0.00E+00 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E-04 | 3.23E-04 | 9.51E-05 | |
| SFP | kg O ₃ eq. | 5.26E+00 | 2.63E-01 | 2.75E-02 | 1.40E-01 | 0.00E+00 | 4.56E-03 | 0.00E+00 | 4.74E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.38E-02 | 5.84E-03 | 1.21E-02 | |
| ODP | kg CFC-11 eq. | 1.91E-04 | 1.56E-05 | 3.54E-08 | 3.13E-07 | 0.00E+00 | 3.34E-09 | 0.00E+00 | 1.75E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-07 | 4.99E-08 | 2.49E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 9.19E+02 | 7.19E+01 | 2.14E+00 | 1.53E+00 | 0.00E+00 | 1.22E+00 | 0.00E+00 | 8.31E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.26E+00 | 2.96E+00 | 1.61E+00 | |
| NRP _M | kg | 1.20E+01 | 9.81E-01 | 0.00E+00 | 1.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 9.19E+02 | 7.19E+01 | 2.14E+00 | 1.53E+00 | 0.00E+00 | 1.22E+00 | 0.00E+00 | 8.31E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.26E+00 | 2.96E+00 | 1.61E+00 | |
| RPR _M | kg | 3.27E-02 | 9.00E-04 | 0.00E+00 | 1.80E-05 | 0.00E+00 | 2.17E-02 | 0.00E+00 | 1.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 1.20E+02 | 9.34E+00 | 3.14E-01 | 2.00E-01 | 0.00E+00 | 1.61E-01 | 0.00E+00 | 1.08E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.42E-01 | 4.42E-01 | 2.37E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 8.13E-01 | 6.56E-02 | 2.73E-04 | 1.31E-03 | 0.00E+00 | 4.56E-03 | 0.00E+00 | 7.39E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E-04 | 3.04E-04 | 1.75E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 5.35E-01 | 2.56E-02 | 0.00E+00 | 3.36E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.89E-01 | 0.00E+00 | |
| NHWD | kg | 1.31E+01 | 8.60E-02 | 0.00E+00 | 8.06E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E+01 | |
| HLRW | kg | 3.45E-08 | 2.79E-09 | 1.84E-11 | 5.82E-11 | 0.00E+00 | 4.58E-11 | 0.00E+00 | 3.16E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.01E-11 | 1.39E-11 | 1.10E-11 | |
| ILLRW | kg | 6.53E-07 | 4.50E-08 | 5.75E-09 | 1.16E-09 | 0.00E+00 | 5.72E-10 | 0.00E+00 | 5.71E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-08 | 8.25E-09 | 4.25E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 23

Product: **Sikafloor® Merflex® ES**
 Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market service life: **10 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 2.50E+01 | 1.09E+01 | 2.83E-01 | 2.29E-01 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 1.29E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-01 | 3.12E-01 | 2.29E-02 | |
| AP | kg SO ₂ eq. | 1.26E-01 | 5.22E-02 | 1.94E-03 | 1.10E-03 | 0.00E+00 | 6.70E-04 | 0.00E+00 | 6.90E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.05E-03 | 2.38E-04 | 1.95E-04 | |
| EP | kg N eq. | 8.50E-02 | 4.39E-02 | 3.26E-04 | 1.00E-03 | 0.00E+00 | 8.56E-04 | 0.00E+00 | 3.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-04 | 1.52E-04 | 3.80E-05 | |
| SFP | kg O ₃ eq. | 2.61E+00 | 6.55E-01 | 5.44E-02 | 1.97E-01 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.66E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.95E-02 | 2.74E-03 | 4.83E-03 | |
| ODP | kg CFC-11 eq. | 2.70E-05 | 5.01E-06 | 7.03E-08 | 1.02E-07 | 0.00E+00 | 6.68E-09 | 0.00E+00 | 2.17E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.21E-08 | 2.34E-08 | 9.96E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.02E+02 | 1.84E+02 | 4.25E+00 | 3.80E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 2.03E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E+00 | 1.39E+00 | 6.45E-01 | |
| NRP _M | kg | 4.67E+00 | 1.98E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.65E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.02E+02 | 1.84E+02 | 4.25E+00 | 3.80E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 2.03E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.50E+00 | 1.39E+00 | 6.45E-01 | |
| RPR _M | kg | 4.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 5.30E+01 | 2.45E+01 | 6.24E-01 | 5.07E-01 | 0.00E+00 | 3.23E-01 | 0.00E+00 | 2.64E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-01 | 2.08E-01 | 9.46E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.44E-01 | 1.38E-01 | 5.47E-04 | 2.74E-03 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.98E-05 | 1.43E-04 | 6.99E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 2.14E-01 | 5.34E-02 | 0.00E+00 | 1.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.09E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.86E-02 | 0.00E+00 | |
| NHWD | kg | 5.10E+00 | 1.79E-01 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.78E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.43E+00 | |
| HLRW | kg | 1.31E-08 | 5.90E-09 | 3.69E-11 | 1.16E-10 | 0.00E+00 | 9.17E-11 | 0.00E+00 | 6.96E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.04E-12 | 6.51E-12 | 4.41E-12 | |
| ILLRW | kg | 2.42E-07 | 8.86E-08 | 1.14E-08 | 2.12E-09 | 0.00E+00 | 1.14E-09 | 0.00E+00 | 1.26E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.06E-09 | 3.88E-09 | 1.70E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 24

Product: **Sikafloor® Merflex® ES**
 Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated technical service life: **15 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.98E+01 | 1.09E+01 | 2.83E-01 | 2.29E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 7.76E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-01 | 2.41E-01 | 1.77E-02 | |
| AP | kg SO ₂ eq. | 9.88E-02 | 5.22E-02 | 1.94E-03 | 1.10E-03 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 4.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.10E-04 | 1.84E-04 | 1.51E-04 | |
| EP | kg N eq. | 6.99E-02 | 4.39E-02 | 3.26E-04 | 1.00E-03 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 2.32E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-04 | 1.17E-04 | 2.94E-05 | |
| SFP | kg O ₃ eq. | 1.94E+00 | 6.55E-01 | 5.44E-02 | 1.97E-01 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 9.95E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.28E-02 | 2.12E-03 | 3.73E-03 | |
| ODP | kg CFC-11 eq. | 1.83E-05 | 5.01E-06 | 7.03E-08 | 1.02E-07 | 0.00E+00 | 1.00E-08 | 0.00E+00 | 1.30E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.26E-08 | 1.81E-08 | 7.70E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 3.21E+02 | 1.84E+02 | 4.25E+00 | 3.80E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 1.22E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.08E+00 | 4.99E-01 | |
| NRP _M | kg | 3.61E+00 | 1.98E+00 | 0.00E+00 | 3.96E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 3.21E+02 | 1.84E+02 | 4.25E+00 | 3.80E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 1.22E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E+00 | 1.08E+00 | 4.99E-01 | |
| RPR _M | kg | 6.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.51E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 4.24E+01 | 2.45E+01 | 6.24E-01 | 5.07E-01 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 1.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.91E-01 | 1.61E-01 | 7.32E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 2.71E-01 | 1.38E-01 | 5.47E-04 | 2.74E-03 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.72E-05 | 1.11E-04 | 5.41E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 1.66E-01 | 5.34E-02 | 0.00E+00 | 1.07E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.26E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.86E-02 | 0.00E+00 | |
| NHWD | kg | 3.94E+00 | 1.79E-01 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.43E+00 | |
| HLRW | kg | 1.04E-08 | 5.90E-09 | 3.69E-11 | 1.16E-10 | 0.00E+00 | 1.38E-10 | 0.00E+00 | 4.18E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.22E-12 | 5.04E-12 | 3.41E-12 | |
| ILLRW | kg | 1.89E-07 | 8.86E-08 | 1.14E-08 | 2.12E-09 | 0.00E+00 | 1.72E-09 | 0.00E+00 | 7.55E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.47E-09 | 3.00E-09 | 1.32E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 25

Product: **Sikafloor® Merflex® PS**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market service life: **10 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 2.36E+01 | 1.04E+01 | 3.33E-01 | 2.20E-01 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 1.19E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.85E-01 | 3.15E-01 | 2.31E-02 | |
| AP | kg SO ₂ eq. | 1.04E-01 | 4.09E-02 | 2.28E-03 | 8.85E-04 | 0.00E+00 | 6.70E-04 | 0.00E+00 | 5.76E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E-03 | 2.40E-04 | 1.97E-04 | |
| EP | kg N eq. | 5.59E-02 | 2.77E-02 | 3.85E-04 | 6.84E-04 | 0.00E+00 | 8.56E-04 | 0.00E+00 | 2.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.38E-04 | 1.53E-04 | 3.84E-05 | |
| SFP | kg O ₃ eq. | 2.45E+00 | 5.45E-01 | 6.39E-02 | 2.80E-01 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.51E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E-02 | 2.77E-03 | 4.87E-03 | |
| ODP | kg CFC-11 eq. | 6.13E-05 | 1.05E-05 | 8.28E-08 | 2.13E-07 | 0.00E+00 | 6.68E-09 | 0.00E+00 | 5.03E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.25E-08 | 2.37E-08 | 1.00E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 3.29E+02 | 1.27E+02 | 5.01E+00 | 2.66E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 1.87E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E+00 | 1.40E+00 | 6.51E-01 | |
| NRP _M | kg | 4.41E+00 | 2.08E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.29E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 3.29E+02 | 1.27E+02 | 5.01E+00 | 2.66E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 1.87E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.53E+00 | 1.40E+00 | 6.51E-01 | |
| RPR _M | kg | 3.52E-01 | 2.99E-01 | 0.00E+00 | 5.97E-03 | 0.00E+00 | 4.34E-02 | 0.00E+00 | 3.58E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 4.43E+01 | 1.64E+01 | 7.35E-01 | 3.47E-01 | 0.00E+00 | 3.23E-01 | 0.00E+00 | 2.59E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.80E-01 | 2.10E-01 | 9.55E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.28E-01 | 1.39E-01 | 6.46E-04 | 2.77E-03 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.01E-04 | 1.44E-04 | 7.05E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 2.16E-01 | 6.40E-02 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.95E-02 | 0.00E+00 | |
| NHWD | kg | 5.11E+00 | 2.15E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.24E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.47E+00 | |
| HLRW | kg | 9.28E-09 | 5.05E-09 | 4.36E-11 | 1.01E-10 | 0.00E+00 | 9.17E-11 | 0.00E+00 | 3.98E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.12E-12 | 6.57E-12 | 4.45E-12 | |
| ILLRW | kg | 2.00E-07 | 8.70E-08 | 1.34E-08 | 2.13E-09 | 0.00E+00 | 1.14E-09 | 0.00E+00 | 8.39E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.13E-09 | 3.91E-09 | 1.72E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 26

Product: **Sikafloor® Merflex® PS**
 Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated technical service life: **15 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.88E+01 | 1.04E+01 | 3.33E-01 | 2.20E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 7.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.49E-01 | 2.54E-01 | 1.87E-02 | |
| AP | kg SO ₂ eq. | 8.09E-02 | 4.09E-02 | 2.28E-03 | 8.85E-04 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 3.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.52E-04 | 1.94E-04 | 1.59E-04 | |
| EP | kg N eq. | 4.59E-02 | 2.77E-02 | 3.85E-04 | 6.84E-04 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 1.55E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.11E-04 | 1.24E-04 | 3.10E-05 | |
| SFP | kg O ₃ eq. | 1.84E+00 | 5.45E-01 | 6.39E-02 | 2.80E-01 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 9.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.40E-02 | 2.23E-03 | 3.93E-03 | |
| ODP | kg CFC-11 eq. | 4.11E-05 | 1.05E-05 | 8.28E-08 | 2.13E-07 | 0.00E+00 | 1.00E-08 | 0.00E+00 | 3.02E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.42E-08 | 1.91E-08 | 8.10E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 2.54E+02 | 1.27E+02 | 5.01E+00 | 2.66E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 1.12E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E+00 | 1.13E+00 | 5.25E-01 | |
| NRP _M | kg | 3.49E+00 | 2.08E+00 | 0.00E+00 | 4.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 2.54E+02 | 1.27E+02 | 5.01E+00 | 2.66E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 1.12E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.04E+00 | 1.13E+00 | 5.25E-01 | |
| RPR _M | kg | 3.72E-01 | 2.99E-01 | 0.00E+00 | 5.97E-03 | 0.00E+00 | 6.51E-02 | 0.00E+00 | 2.15E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 3.40E+01 | 1.64E+01 | 7.35E-01 | 3.47E-01 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 1.55E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.06E-01 | 1.69E-01 | 7.70E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 2.62E-01 | 1.39E-01 | 6.46E-04 | 2.77E-03 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 1.05E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.12E-05 | 1.16E-04 | 5.69E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 1.74E-01 | 6.40E-02 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.68E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.22E-02 | 0.00E+00 | |
| NHWD | kg | 4.12E+00 | 2.15E-01 | 0.00E+00 | 1.00E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E+00 | |
| HLRW | kg | 7.73E-09 | 5.05E-09 | 4.36E-11 | 1.01E-10 | 0.00E+00 | 1.38E-10 | 0.00E+00 | 2.39E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.55E-12 | 5.30E-12 | 3.59E-12 | |
| ILLRW | kg | 1.65E-07 | 8.70E-08 | 1.34E-08 | 2.13E-09 | 0.00E+00 | 1.72E-09 | 0.00E+00 | 5.03E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.75E-09 | 3.15E-09 | 1.38E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 27

Product: **Sikafloor® MultiDur® EC**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market and technical service life: **5 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 4.29E+01 | 4.71E+00 | 1.39E-01 | 9.91E-02 | 0.00E+00 | 8.68E-02 | 0.00E+00 | 3.69E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.49E-01 | 5.95E-01 | 4.37E-02 | |
| AP | kg SO ₂ eq. | 2.20E-01 | 2.36E-02 | 9.51E-04 | 5.02E-04 | 0.00E+00 | 3.35E-04 | 0.00E+00 | 1.92E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.99E-03 | 4.53E-04 | 3.71E-04 | |
| EP | kg N eq. | 9.79E-02 | 1.19E-02 | 1.59E-04 | 2.46E-04 | 0.00E+00 | 4.28E-04 | 0.00E+00 | 8.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.61E-04 | 2.89E-04 | 7.25E-05 | |
| SFP | kg O ₃ eq. | 3.63E+00 | 2.72E-01 | 2.67E-02 | 9.28E-02 | 0.00E+00 | 4.56E-03 | 0.00E+00 | 3.16E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.62E-02 | 5.23E-03 | 9.20E-03 | |
| ODP | kg CFC-11 eq. | 1.20E-04 | 9.90E-06 | 3.45E-08 | 1.99E-07 | 0.00E+00 | 3.34E-09 | 0.00E+00 | 1.10E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.02E-08 | 4.47E-08 | 1.90E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 6.80E+02 | 7.60E+01 | 2.08E+00 | 1.58E+00 | 0.00E+00 | 1.22E+00 | 0.00E+00 | 5.91E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E+00 | 2.65E+00 | 1.23E+00 | |
| NRP _M | kg | 8.83E+00 | 9.57E-01 | 0.00E+00 | 1.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.85E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 6.80E+02 | 7.60E+01 | 2.08E+00 | 1.58E+00 | 0.00E+00 | 1.22E+00 | 0.00E+00 | 5.91E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E+00 | 2.65E+00 | 1.23E+00 | |
| RPR _M | kg | 3.03E-02 | 7.02E-04 | 0.00E+00 | 1.40E-05 | 0.00E+00 | 2.17E-02 | 0.00E+00 | 7.88E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 9.18E+01 | 1.01E+01 | 3.06E-01 | 2.11E-01 | 0.00E+00 | 1.61E-01 | 0.00E+00 | 7.98E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.17E-01 | 3.96E-01 | 1.80E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 5.74E-01 | 6.77E-02 | 2.67E-04 | 1.35E-03 | 0.00E+00 | 4.56E-03 | 0.00E+00 | 4.98E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-04 | 2.72E-04 | 1.33E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 4.08E-01 | 2.59E-02 | 0.00E+00 | 5.18E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.69E-01 | 0.00E+00 | |
| NHWD | kg | 9.72E+00 | 8.68E-02 | 0.00E+00 | 5.83E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.45E+00 | |
| HLRW | kg | 1.65E-08 | 2.14E-09 | 1.80E-11 | 4.25E-11 | 0.00E+00 | 4.58E-11 | 0.00E+00 | 1.42E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.53E-11 | 1.24E-11 | 8.41E-12 | |
| ILLRW | kg | 3.50E-07 | 3.41E-08 | 5.60E-09 | 8.66E-10 | 0.00E+00 | 5.72E-10 | 0.00E+00 | 2.85E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-08 | 7.38E-09 | 3.24E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 28

Product: **Sikafloor® MultiDur® HS**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market and technical service life: **5 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.42E+01 | 4.41E+00 | 1.26E-01 | 9.48E-02 | 0.00E+00 | 8.68E-02 | 0.00E+00 | 9.25E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.37E-02 | 1.60E-01 | 1.17E-02 | |
| AP | kg SO ₂ eq. | 6.86E-02 | 2.26E-02 | 8.64E-04 | 4.80E-04 | 0.00E+00 | 3.35E-04 | 0.00E+00 | 4.37E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.35E-04 | 1.22E-04 | 9.96E-05 | |
| EP | kg N eq. | 4.12E-02 | 1.32E-02 | 1.45E-04 | 3.81E-04 | 0.00E+00 | 4.28E-04 | 0.00E+00 | 2.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.01E-05 | 7.76E-05 | 1.95E-05 | |
| SFP | kg O ₃ eq. | 2.42E+00 | 2.61E-01 | 2.43E-02 | 1.91E-01 | 0.00E+00 | 4.56E-03 | 0.00E+00 | 1.92E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.51E-02 | 1.40E-03 | 2.47E-03 | |
| ODP | kg CFC-11 eq. | 3.79E-05 | 4.72E-06 | 3.13E-08 | 9.54E-08 | 0.00E+00 | 3.34E-09 | 0.00E+00 | 3.30E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-08 | 1.20E-08 | 5.09E-09 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 2.17E+02 | 7.03E+01 | 1.89E+00 | 1.47E+00 | 0.00E+00 | 1.22E+00 | 0.00E+00 | 1.39E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E+00 | 7.11E-01 | 3.30E-01 | |
| NRP _M | kg | 2.44E+00 | 8.73E-01 | 0.00E+00 | 1.75E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 2.17E+02 | 7.03E+01 | 1.89E+00 | 1.47E+00 | 0.00E+00 | 1.22E+00 | 0.00E+00 | 1.39E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.28E+00 | 7.11E-01 | 3.30E-01 | |
| RPR _M | kg | 2.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.17E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 2.88E+01 | 9.06E+00 | 2.78E-01 | 1.90E-01 | 0.00E+00 | 1.61E-01 | 0.00E+00 | 1.87E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.93E-01 | 1.06E-01 | 4.84E-02 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 2.33E-01 | 6.70E-02 | 2.43E-04 | 1.33E-03 | 0.00E+00 | 4.56E-03 | 0.00E+00 | 1.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.11E-05 | 7.31E-05 | 3.57E-04 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 1.10E-01 | 2.35E-02 | 0.00E+00 | 4.69E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.02E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.54E-02 | 0.00E+00 | |
| NHWD | kg | 2.61E+00 | 7.87E-02 | 0.00E+00 | 5.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E+00 | |
| HLRW | kg | 7.05E-09 | 2.49E-09 | 1.64E-11 | 5.00E-11 | 0.00E+00 | 4.58E-11 | 0.00E+00 | 4.44E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.12E-12 | 3.33E-12 | 2.26E-12 | |
| ILLRW | kg | 1.34E-07 | 3.83E-08 | 5.08E-09 | 9.38E-10 | 0.00E+00 | 5.72E-10 | 0.00E+00 | 8.28E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.61E-09 | 1.98E-09 | 8.70E-10 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 29

Product: **Sikafloor® PurCem® TG**
 Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 4.17E+01 | 3.10E+01 | 2.60E+00 | 8.77E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 5.92E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.26E-01 | 0.00E+00 | 1.04E-01 | |
| AP | kg SO ₂ eq. | 1.85E-01 | 1.34E-01 | 1.77E-02 | 3.13E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 2.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.72E-03 | 0.00E+00 | 8.79E-04 | |
| EP | kg N eq. | 1.27E-01 | 8.67E-02 | 3.01E-03 | 1.53E-02 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 1.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.18E-04 | 0.00E+00 | 1.72E-04 | |
| SFP | kg O ₃ eq. | 3.47E+00 | 2.16E+00 | 4.95E-01 | 2.33E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 4.11E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.33E-01 | 0.00E+00 | 2.18E-02 | |
| ODP | kg CFC-11 eq. | 5.28E-06 | 3.60E-06 | 6.44E-07 | 8.50E-08 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 6.95E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.90E-07 | 0.00E+00 | 4.49E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.60E+02 | 3.31E+02 | 3.90E+01 | 7.27E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 6.39E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E+01 | 0.00E+00 | 2.91E+00 | |
| NRP _M | kg | 2.04E+01 | 1.88E+01 | 0.00E+00 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.19E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.60E+02 | 3.31E+02 | 3.90E+01 | 7.27E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 6.39E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.13E+01 | 0.00E+00 | 2.91E+00 | |
| RPR _M | kg | 1.27E+00 | 9.74E-01 | 0.00E+00 | 1.95E-02 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 1.90E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 6.16E+01 | 4.36E+01 | 5.71E+00 | 9.71E-01 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 8.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+00 | 0.00E+00 | 4.27E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.77E-01 | 2.87E-01 | 5.06E-03 | 5.92E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 5.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.51E-04 | 0.00E+00 | 3.15E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 9.67E-01 | 5.22E-01 | 0.00E+00 | 4.10E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 2.22E+01 | 1.75E+00 | 0.00E+00 | 2.86E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.68E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.00E+01 | |
| HLRW | kg | 2.02E-08 | 1.65E-08 | 3.43E-10 | 2.96E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 2.83E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.63E-11 | 0.00E+00 | 1.99E-11 | |
| ILLRW | kg | 5.45E-07 | 3.32E-07 | 1.05E-07 | 8.71E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 5.78E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-08 | 0.00E+00 | 7.67E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 30

Product: **Sikafloor® PurCem® TG**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.89E+01 | 3.10E+01 | 2.60E+00 | 8.76E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 2.96E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.01E-01 | 0.00E+00 | 1.00E-01 | |
| AP | kg SO ₂ eq. | 1.74E-01 | 1.34E-01 | 1.77E-02 | 3.13E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 1.14E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.58E-03 | 0.00E+00 | 8.52E-04 | |
| EP | kg N eq. | 1.18E-01 | 8.67E-02 | 3.01E-03 | 1.51E-02 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 9.62E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.99E-04 | 0.00E+00 | 1.66E-04 | |
| SFP | kg O ₃ eq. | 3.27E+00 | 2.16E+00 | 4.95E-01 | 2.33E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 2.05E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.29E-01 | 0.00E+00 | 2.11E-02 | |
| ODP | kg CFC-11 eq. | 4.93E-06 | 3.60E-06 | 6.44E-07 | 8.49E-08 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 3.47E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.84E-07 | 0.00E+00 | 4.36E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.30E+02 | 3.31E+02 | 3.90E+01 | 7.27E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 3.19E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+01 | 0.00E+00 | 2.82E+00 | |
| NRP _M | kg | 1.98E+01 | 1.88E+01 | 0.00E+00 | 3.77E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.96E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.30E+02 | 3.31E+02 | 3.90E+01 | 7.27E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 3.19E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E+01 | 0.00E+00 | 2.82E+00 | |
| RPR _M | kg | 1.22E+00 | 9.74E-01 | 0.00E+00 | 1.95E-02 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 9.50E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 5.76E+01 | 4.36E+01 | 5.71E+00 | 9.71E-01 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 4.27E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E+00 | 0.00E+00 | 4.14E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.57E-01 | 2.87E-01 | 5.06E-03 | 5.92E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 2.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E-04 | 0.00E+00 | 3.06E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 9.37E-01 | 5.22E-01 | 0.00E+00 | 3.98E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.73E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 2.15E+01 | 1.75E+00 | 0.00E+00 | 2.86E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.94E+01 | |
| HLRW | kg | 1.89E-08 | 1.65E-08 | 3.43E-10 | 2.95E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 1.41E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.52E-11 | 0.00E+00 | 1.93E-11 | |
| ILLRW | kg | 5.16E-07 | 3.32E-07 | 1.05E-07 | 8.70E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 2.89E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.09E-08 | 0.00E+00 | 7.44E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 31

Product: **Sikafloor® PurCem® SL+**
 Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market service life: **10 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 4.05E+01 | 2.28E+01 | 1.47E+00 | 6.18E-01 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 1.48E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.65E-01 | 0.00E+00 | 7.07E-02 | |
| AP | kg SO ₂ eq. | 1.68E-01 | 9.39E-02 | 1.00E-02 | 2.15E-03 | 0.00E+00 | 6.70E-04 | 0.00E+00 | 5.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.23E-03 | 0.00E+00 | 6.01E-04 | |
| EP | kg N eq. | 1.27E-01 | 6.55E-02 | 1.70E-03 | 9.97E-03 | 0.00E+00 | 8.56E-04 | 0.00E+00 | 4.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22E-04 | 0.00E+00 | 1.17E-04 | |
| SFP | kg O ₃ eq. | 3.06E+00 | 1.49E+00 | 2.80E-01 | 1.47E-01 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.10E-02 | 0.00E+00 | 1.49E-02 | |
| ODP | kg CFC-11 eq. | 4.98E-06 | 2.65E-06 | 3.65E-07 | 6.09E-08 | 0.00E+00 | 6.68E-09 | 0.00E+00 | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-07 | 0.00E+00 | 3.07E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 4.42E+02 | 2.43E+02 | 2.21E+01 | 5.28E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 1.60E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.72E+00 | 0.00E+00 | 1.99E+00 | |
| NRP _M | kg | 1.36E+01 | 1.04E+01 | 0.00E+00 | 2.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 4.42E+02 | 2.43E+02 | 2.21E+01 | 5.28E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 1.60E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.72E+00 | 0.00E+00 | 1.99E+00 | |
| RPR _M | kg | 1.28E+00 | 7.47E-01 | 0.00E+00 | 1.49E-02 | 0.00E+00 | 4.34E-02 | 0.00E+00 | 4.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 5.86E+01 | 3.15E+01 | 3.23E+00 | 6.93E-01 | 0.00E+00 | 3.23E-01 | 0.00E+00 | 2.13E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E+00 | 0.00E+00 | 2.92E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.81E-01 | 2.18E-01 | 2.86E-03 | 4.51E-03 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.08E-04 | 0.00E+00 | 2.15E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 6.60E-01 | 2.95E-01 | 0.00E+00 | 2.79E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 1.52E+01 | 9.88E-01 | 0.00E+00 | 1.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E+01 | |
| HLRW | kg | 1.94E-08 | 1.18E-08 | 1.94E-10 | 2.28E-10 | 0.00E+00 | 9.17E-11 | 0.00E+00 | 7.07E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.48E-11 | 0.00E+00 | 1.36E-11 | |
| ILLRW | kg | 4.66E-07 | 2.29E-07 | 5.92E-08 | 5.88E-09 | 0.00E+00 | 1.14E-09 | 0.00E+00 | 1.45E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.18E-08 | 0.00E+00 | 5.24E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 32

Product: **Sikafloor® PurCem® SL+**
 Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated technical service life: **15 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.46E+01 | 2.28E+01 | 1.47E+00 | 6.16E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 8.88E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E-01 | 0.00E+00 | 6.44E-02 | |
| AP | kg SO ₂ eq. | 1.45E-01 | 9.39E-02 | 1.00E-02 | 2.15E-03 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 3.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.94E-03 | 0.00E+00 | 5.47E-04 | |
| EP | kg N eq. | 1.07E-01 | 6.55E-02 | 1.70E-03 | 9.69E-03 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 2.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.85E-04 | 0.00E+00 | 1.07E-04 | |
| SFP | kg O ₃ eq. | 2.65E+00 | 1.49E+00 | 2.80E-01 | 1.47E-01 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 6.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.29E-02 | 0.00E+00 | 1.36E-02 | |
| ODP | kg CFC-11 eq. | 4.28E-06 | 2.65E-06 | 3.65E-07 | 6.08E-08 | 0.00E+00 | 1.00E-08 | 0.00E+00 | 1.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.18E-07 | 0.00E+00 | 2.80E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 3.78E+02 | 2.43E+02 | 2.21E+01 | 5.27E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 9.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.03E+00 | 0.00E+00 | 1.81E+00 | |
| NRP _M | kg | 1.24E+01 | 1.04E+01 | 0.00E+00 | 2.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 3.78E+02 | 2.43E+02 | 2.21E+01 | 5.27E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 9.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.03E+00 | 0.00E+00 | 1.81E+00 | |
| RPR _M | kg | 1.11E+00 | 7.47E-01 | 0.00E+00 | 1.49E-02 | 0.00E+00 | 6.51E-02 | 0.00E+00 | 2.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 5.01E+01 | 3.15E+01 | 3.23E+00 | 6.92E-01 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 1.28E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 2.66E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.28E-01 | 2.18E-01 | 2.86E-03 | 4.50E-03 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 8.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.80E-04 | 0.00E+00 | 1.96E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 6.01E-01 | 2.95E-01 | 0.00E+00 | 2.55E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 1.39E+01 | 9.88E-01 | 0.00E+00 | 1.71E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.24E+01 | |
| HLRW | kg | 1.66E-08 | 1.18E-08 | 1.94E-10 | 2.28E-10 | 0.00E+00 | 1.38E-10 | 0.00E+00 | 4.24E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.26E-11 | 0.00E+00 | 1.24E-11 | |
| ILLRW | kg | 4.07E-07 | 2.29E-07 | 5.92E-08 | 5.87E-09 | 0.00E+00 | 1.72E-09 | 0.00E+00 | 8.67E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.98E-08 | 0.00E+00 | 4.77E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 33

Product: **Sikafloor® PurCem® SL**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market service life: **10 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.61E+01 | 1.93E+01 | 8.29E-01 | 5.26E-01 | 0.00E+00 | 1.74E-01 | 0.00E+00 | 1.48E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.70E-01 | 0.00E+00 | 4.63E-02 | |
| AP | kg SO ₂ eq. | 1.43E-01 | 7.55E-02 | 5.66E-03 | 1.69E-03 | 0.00E+00 | 6.70E-04 | 0.00E+00 | 5.72E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.11E-03 | 0.00E+00 | 3.93E-04 | |
| EP | kg N eq. | 1.16E-01 | 5.70E-02 | 9.60E-04 | 8.57E-03 | 0.00E+00 | 8.56E-04 | 0.00E+00 | 4.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-04 | 0.00E+00 | 7.68E-05 | |
| SFP | kg O ₃ eq. | 2.56E+00 | 1.18E+00 | 1.58E-01 | 1.18E-01 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.03E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.96E-02 | 0.00E+00 | 9.75E-03 | |
| ODP | kg CFC-11 eq. | 4.34E-06 | 2.24E-06 | 2.06E-07 | 4.97E-08 | 0.00E+00 | 6.68E-09 | 0.00E+00 | 1.74E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.50E-08 | 0.00E+00 | 2.01E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 3.92E+02 | 2.07E+02 | 1.25E+01 | 4.41E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 1.60E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.06E+00 | 0.00E+00 | 1.30E+00 | |
| NRP _M | kg | 8.78E+00 | 5.69E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.98E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 3.92E+02 | 2.07E+02 | 1.25E+01 | 4.41E+00 | 0.00E+00 | 2.45E+00 | 0.00E+00 | 1.60E+02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.06E+00 | 0.00E+00 | 1.30E+00 | |
| RPR _M | kg | 1.18E+00 | 6.52E-01 | 0.00E+00 | 1.30E-02 | 0.00E+00 | 4.34E-02 | 0.00E+00 | 4.75E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 5.20E+01 | 2.70E+01 | 1.83E+00 | 5.79E-01 | 0.00E+00 | 3.23E-01 | 0.00E+00 | 2.13E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-01 | 0.00E+00 | 1.91E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.51E-01 | 1.91E-01 | 1.61E-03 | 3.92E-03 | 0.00E+00 | 9.12E-03 | 0.00E+00 | 1.43E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-04 | 0.00E+00 | 1.41E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 4.33E-01 | 1.64E-01 | 0.00E+00 | 1.82E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.63E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 1.01E+01 | 5.50E-01 | 0.00E+00 | 1.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.95E+00 | |
| HLRW | kg | 1.71E-08 | 9.66E-09 | 1.09E-10 | 1.90E-10 | 0.00E+00 | 9.17E-11 | 0.00E+00 | 7.07E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-11 | 0.00E+00 | 8.92E-12 | |
| ILLRW | kg | 3.81E-07 | 1.79E-07 | 3.34E-08 | 4.42E-09 | 0.00E+00 | 1.14E-09 | 0.00E+00 | 1.45E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-08 | 0.00E+00 | 3.43E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRP_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 34

Product: **Sikafloor® PurCem® SL**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **15 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.02E+01 | 1.93E+01 | 8.29E-01 | 5.23E-01 | 0.00E+00 | 2.60E-01 | 0.00E+00 | 8.88E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.19E-01 | 0.00E+00 | 4.00E-02 | |
| AP | kg SO ₂ eq. | 1.20E-01 | 7.55E-02 | 5.66E-03 | 1.69E-03 | 0.00E+00 | 1.00E-03 | 0.00E+00 | 3.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.83E-03 | 0.00E+00 | 3.40E-04 | |
| EP | kg N eq. | 9.67E-02 | 5.70E-02 | 9.60E-04 | 8.30E-03 | 0.00E+00 | 1.28E-03 | 0.00E+00 | 2.89E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.39E-04 | 0.00E+00 | 6.64E-05 | |
| SFP | kg O ₃ eq. | 2.15E+00 | 1.18E+00 | 1.58E-01 | 1.18E-01 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 6.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.15E-02 | 0.00E+00 | 8.42E-03 | |
| ODP | kg CFC-11 eq. | 3.64E-06 | 2.24E-06 | 2.06E-07 | 4.96E-08 | 0.00E+00 | 1.00E-08 | 0.00E+00 | 1.04E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.34E-08 | 0.00E+00 | 1.74E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 3.28E+02 | 2.07E+02 | 1.25E+01 | 4.41E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 9.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E+00 | 0.00E+00 | 1.13E+00 | |
| NRP _M | kg | 7.59E+00 | 5.69E+00 | 0.00E+00 | 1.14E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 3.28E+02 | 2.07E+02 | 1.25E+01 | 4.41E+00 | 0.00E+00 | 3.67E+00 | 0.00E+00 | 9.58E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.37E+00 | 0.00E+00 | 1.13E+00 | |
| RPR _M | kg | 1.02E+00 | 6.52E-01 | 0.00E+00 | 1.30E-02 | 0.00E+00 | 6.51E-02 | 0.00E+00 | 2.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 4.35E+01 | 2.70E+01 | 1.83E+00 | 5.79E-01 | 0.00E+00 | 4.84E-01 | 0.00E+00 | 1.28E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.57E-01 | 0.00E+00 | 1.65E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 2.98E-01 | 1.91E-01 | 1.61E-03 | 3.91E-03 | 0.00E+00 | 1.37E-02 | 0.00E+00 | 8.59E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.74E-04 | 0.00E+00 | 1.22E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.74E-01 | 1.64E-01 | 0.00E+00 | 1.58E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 8.69E+00 | 5.50E-01 | 0.00E+00 | 1.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.74E+00 | |
| HLRW | kg | 1.44E-08 | 9.66E-09 | 1.09E-10 | 1.90E-10 | 0.00E+00 | 1.38E-10 | 0.00E+00 | 4.24E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.40E-11 | 0.00E+00 | 7.70E-12 | |
| ILLRW | kg | 3.21E-07 | 1.79E-07 | 3.34E-08 | 4.41E-09 | 0.00E+00 | 1.72E-09 | 0.00E+00 | 8.67E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.23E-08 | 0.00E+00 | 2.97E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 35

Product: **Sikafloor® PurCem® VG**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.59E+01 | 1.09E+01 | 9.14E-01 | 3.44E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 3.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.97E-01 | 0.00E+00 | 3.72E-02 | |
| AP | kg SO ₂ eq. | 7.02E-02 | 4.76E-02 | 6.23E-03 | 1.14E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E-03 | 0.00E+00 | 3.16E-04 | |
| EP | kg N eq. | 4.95E-02 | 2.97E-02 | 1.06E-03 | 6.84E-03 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 9.98E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.22E-04 | 0.00E+00 | 6.17E-05 | |
| SFP | kg O ₃ eq. | 1.34E+00 | 7.61E-01 | 1.74E-01 | 1.18E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 2.13E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.79E-02 | 0.00E+00 | 7.83E-03 | |
| ODP | kg CFC-11 eq. | 1.93E-06 | 1.22E-06 | 2.27E-07 | 2.96E-08 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 3.60E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.83E-08 | 0.00E+00 | 1.62E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 1.74E+02 | 1.15E+02 | 1.37E+01 | 2.62E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 3.31E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E+00 | 0.00E+00 | 1.05E+00 | |
| NRP _M | kg | 7.42E+00 | 6.66E+00 | 0.00E+00 | 1.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 1.74E+02 | 1.15E+02 | 1.37E+01 | 2.62E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 3.31E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.06E+00 | 0.00E+00 | 1.05E+00 | |
| RPR _M | kg | 5.08E-01 | 3.16E-01 | 0.00E+00 | 6.33E-03 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 9.85E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 2.37E+01 | 1.55E+01 | 2.01E+00 | 3.54E-01 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 4.43E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.11E-01 | 0.00E+00 | 1.53E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 1.50E-01 | 9.68E-02 | 1.78E-03 | 2.04E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 2.97E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-04 | 0.00E+00 | 1.13E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.48E-01 | 1.82E-01 | 0.00E+00 | 1.47E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.79E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 8.02E+00 | 6.11E-01 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.19E+00 | |
| HLRW | kg | 7.69E-09 | 5.77E-09 | 1.21E-10 | 1.26E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 1.47E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.30E-11 | 0.00E+00 | 7.16E-12 | |
| ILLRW | kg | 2.02E-07 | 1.16E-07 | 3.68E-08 | 3.27E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 3.00E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.15E-08 | 0.00E+00 | 2.76E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 36

Product: **Sikafloor® PurCem® VG**

Application: **industrial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 1.46E+01 | 1.09E+01 | 9.14E-01 | 3.43E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 1.54E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.84E-01 | 0.00E+00 | 3.56E-02 | |
| AP | kg SO ₂ eq. | 6.48E-02 | 4.76E-02 | 6.23E-03 | 1.14E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 5.93E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.62E-03 | 0.00E+00 | 3.02E-04 | |
| EP | kg N eq. | 4.53E-02 | 2.97E-02 | 1.06E-03 | 6.77E-03 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 4.99E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E-04 | 0.00E+00 | 5.90E-05 | |
| SFP | kg O ₃ eq. | 1.24E+00 | 7.61E-01 | 1.74E-01 | 1.18E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 1.06E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.58E-02 | 0.00E+00 | 7.48E-03 | |
| ODP | kg CFC-11 eq. | 1.75E-06 | 1.22E-06 | 2.27E-07 | 2.96E-08 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 1.80E-07 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.53E-08 | 0.00E+00 | 1.54E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 1.60E+02 | 1.15E+02 | 1.37E+01 | 2.62E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 1.66E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E+00 | 0.00E+00 | 1.00E+00 | |
| NRP _M | kg | 7.11E+00 | 6.66E+00 | 0.00E+00 | 1.33E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.09E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 1.60E+02 | 1.15E+02 | 1.37E+01 | 2.62E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 1.66E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.88E+00 | 0.00E+00 | 1.00E+00 | |
| RPR _M | kg | 5.02E-01 | 3.16E-01 | 0.00E+00 | 6.33E-03 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 4.93E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 2.18E+01 | 1.55E+01 | 2.01E+00 | 3.54E-01 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 2.21E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.84E-01 | 0.00E+00 | 1.47E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 1.44E-01 | 9.68E-02 | 1.78E-03 | 2.04E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 1.49E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.55E-04 | 0.00E+00 | 1.08E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.32E-01 | 1.82E-01 | 0.00E+00 | 1.41E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NHWD | kg | 7.66E+00 | 6.11E-01 | 0.00E+00 | 1.35E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.35E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.87E+00 | |
| HLRW | kg | 7.05E-09 | 5.77E-09 | 1.21E-10 | 1.26E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 7.33E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.25E-11 | 0.00E+00 | 6.84E-12 | |
| ILLRW | kg | 1.88E-07 | 1.16E-07 | 3.68E-08 | 3.27E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 1.50E-08 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.10E-08 | 0.00E+00 | 2.64E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 37

Product: **Pulastic Classic 90**
 Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**
 Estimated market service life: **20 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|--|----------|------------|----------|----------|--------------|---|----------|----------|----------|----------|-----------|-----------------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.60E+01 | 3.21E+01 | 1.25E+00 | 6.86E-01 | 0.00E+00 | 3.47E-01 | 0.00E+00 | 8.31E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.76E-01 | 2.88E-01 | 4.70E-02 | |
| AP | kg SO ₂ eq. | 1.39E-01 | 1.20E-01 | 8.55E-03 | 2.63E-03 | 0.00E+00 | 1.34E-03 | 0.00E+00 | 3.88E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.15E-03 | 2.20E-04 | 4.00E-04 | |
| EP | kg N eq. | 9.45E-02 | 8.65E-02 | 1.45E-03 | 2.58E-03 | 0.00E+00 | 1.71E-03 | 0.00E+00 | 1.81E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.81E-04 | 1.40E-04 | 7.80E-05 | |
| SFP | kg O ₃ eq. | 2.27E+00 | 1.70E+00 | 2.39E-01 | 1.72E-01 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 6.81E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.06E-02 | 2.53E-03 | 9.90E-03 | |
| ODP | kg CFC-11 eq. | 2.03E-05 | 8.38E-06 | 3.11E-07 | 1.75E-07 | 0.00E+00 | 1.34E-08 | 0.00E+00 | 1.13E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.63E-08 | 2.17E-08 | 2.04E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 5.18E+02 | 4.65E+02 | 1.88E+01 | 9.74E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.15E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E+00 | 1.28E+00 | 1.32E+00 | |
| NRP _M | kg | 8.45E+00 | 8.02E+00 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.74E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 5.18E+02 | 4.65E+02 | 1.88E+01 | 9.74E+00 | 0.00E+00 | 4.89E+00 | 0.00E+00 | 1.15E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.14E+00 | 1.28E+00 | 1.32E+00 | |
| RPR _M | kg | 1.29E+00 | 1.18E+00 | 0.00E+00 | 2.36E-02 | 0.00E+00 | 8.67E-02 | 0.00E+00 | 1.59E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 6.94E+01 | 6.20E+01 | 2.76E+00 | 1.30E+00 | 0.00E+00 | 6.45E-01 | 0.00E+00 | 1.63E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.72E-01 | 1.92E-01 | 1.94E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.98E-01 | 3.53E-01 | 2.43E-03 | 7.07E-03 | 0.00E+00 | 1.82E-02 | 0.00E+00 | 1.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.05E-04 | 1.32E-04 | 1.43E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.87E-01 | 2.45E-01 | 0.00E+00 | 5.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.41E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.19E-02 | 0.00E+00 | |
| NHWD | kg | 1.03E+01 | 8.22E-01 | 0.00E+00 | 3.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.54E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.09E+00 | |
| HLRW | kg | 1.42E-08 | 1.34E-08 | 1.65E-10 | 2.64E-10 | 0.00E+00 | 1.83E-10 | 0.00E+00 | 2.15E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.65E-11 | 6.01E-12 | 9.05E-12 | |
| ILLRW | kg | 3.40E-07 | 2.54E-07 | 5.04E-08 | 6.39E-09 | 0.00E+00 | 2.29E-09 | 0.00E+00 | 5.10E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-08 | 3.58E-09 | 3.49E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | | | | | <i>SM</i> | <i>Secondary materials</i> | | | | | <i>B1</i> | <i>Use</i> | | | | |
| <i>AP</i> | <i>Acidification potential</i> | | | | | <i>RSF</i> | <i>Renewable secondary fuels</i> | | | | | <i>B2</i> | <i>Maintenance</i> | | | | |
| <i>EP</i> | <i>Eutrophication potential</i> | | | | | <i>NRSF</i> | <i>Non-renewable secondary fuels</i> | | | | | <i>B3</i> | <i>Repair</i> | | | | |
| <i>SFP</i> | <i>Smog formation potential</i> | | | | | <i>FW</i> | <i>Consumption of fresh water</i> | | | | | <i>B4</i> | <i>Replacement</i> | | | | |
| <i>ODP</i> | <i>Ozone depletion potential</i> | | | | | <i>HWD</i> | <i>Hazardous waste disposed</i> | | | | | <i>B5</i> | <i>Refurbishment</i> | | | | |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | | | | | <i>NHWD</i> | <i>Non-hazardous waste disposed</i> | | | | | <i>B6</i> | <i>Operational energy use</i> | | | | |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | | | | | <i>HLRW</i> | <i>High-level radioactive waste</i> | | | | | <i>B7</i> | <i>Operational water use</i> | | | | |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | | | | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> | | | | | <i>C1</i> | <i>De-construction/Demolition</i> | | | | |
| <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> | | | | | <i>A1-3</i> | <i>Production stage</i> | | | | | <i>C2</i> | <i>Waste transport</i> | | | | |
| <i>RE_{DWPS}</i> | <i>Recovered energy from disposal of waste in previous systems</i> | | | | | <i>A4</i> | <i>Transport to site</i> | | | | | <i>C3</i> | <i>Waste processing</i> | | | | |
| <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> | | | | | <i>A5</i> | <i>Installation</i> | | | | | <i>C4</i> | <i>Disposal</i> | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 38

Product: **Pulastic Classic 90**

Application: **commercial**

Functional unit: **1 m² of floor coating system (cradle-to-grave)**

Estimated technical service life: **30 years**

| Indicators | Unit | Total | Production | | | Use | | | | | | | End-of-life | | | | |
|---------------------------------|---|----------|------------|----------|----------|----------|--|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|--|
| | | | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | |
| Environmental indicators | | | | | | | | | | | | | | | | | |
| GWP | kg CO ₂ -eq. | 3.57E+01 | 3.21E+01 | 1.25E+00 | 6.86E-01 | 0.00E+00 | 5.21E-01 | 0.00E+00 | 4.16E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.70E-01 | 2.84E-01 | 4.64E-02 | |
| AP | kg SO ₂ eq. | 1.38E-01 | 1.20E-01 | 8.55E-03 | 2.63E-03 | 0.00E+00 | 2.01E-03 | 0.00E+00 | 1.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.12E-03 | 2.17E-04 | 3.94E-04 | |
| EP | kg N eq. | 9.44E-02 | 8.65E-02 | 1.45E-03 | 2.56E-03 | 0.00E+00 | 2.57E-03 | 0.00E+00 | 9.06E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.77E-04 | 1.38E-04 | 7.69E-05 | |
| SFP | kg O ₃ eq. | 2.24E+00 | 1.70E+00 | 2.39E-01 | 1.72E-01 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 3.40E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.97E-02 | 2.50E-03 | 9.76E-03 | |
| ODP | kg CFC-11 eq. | 1.47E-05 | 8.38E-06 | 3.11E-07 | 1.75E-07 | 0.00E+00 | 2.00E-08 | 0.00E+00 | 5.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.51E-08 | 2.13E-08 | 2.01E-08 | |
| Resource use | | | | | | | | | | | | | | | | | |
| NRPR _E | MJ | 5.14E+02 | 4.65E+02 | 1.88E+01 | 9.74E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 5.76E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.06E+00 | 1.26E+00 | 1.31E+00 | |
| NRP _M | kg | 8.32E+00 | 8.02E+00 | 0.00E+00 | 1.60E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RPR _E | MJ | 5.14E+02 | 4.65E+02 | 1.88E+01 | 9.74E+00 | 0.00E+00 | 7.34E+00 | 0.00E+00 | 5.76E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.06E+00 | 1.26E+00 | 1.31E+00 | |
| RPR _M | kg | 1.33E+00 | 1.18E+00 | 0.00E+00 | 2.36E-02 | 0.00E+00 | 1.30E-01 | 0.00E+00 | 7.96E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RE _{DWPS} | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| ADP _{fossil} | MJ | 6.89E+01 | 6.20E+01 | 2.76E+00 | 1.30E+00 | 0.00E+00 | 9.68E-01 | 0.00E+00 | 8.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.61E-01 | 1.89E-01 | 1.91E-01 | |
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| RSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| NRSF | MJ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| FW | m ³ | 3.99E-01 | 3.53E-01 | 2.43E-03 | 7.07E-03 | 0.00E+00 | 2.74E-02 | 0.00E+00 | 7.69E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.02E-04 | 1.30E-04 | 1.41E-03 | |
| Waste* | | | | | | | | | | | | | | | | | |
| HWD | kg | 3.81E-01 | 2.45E-01 | 0.00E+00 | 5.15E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.71E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.07E-02 | 0.00E+00 | |
| NHWD | kg | 1.01E+01 | 8.22E-01 | 0.00E+00 | 3.30E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.77E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.96E+00 | |
| HLRW | kg | 1.42E-08 | 1.34E-08 | 1.65E-10 | 2.64E-10 | 0.00E+00 | 2.75E-10 | 0.00E+00 | 1.08E-10 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.63E-11 | 5.93E-12 | 8.92E-12 | |
| ILLRW | kg | 3.38E-07 | 2.54E-07 | 5.04E-08 | 6.39E-09 | 0.00E+00 | 3.43E-09 | 0.00E+00 | 2.55E-09 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.43E-08 | 3.53E-09 | 3.44E-09 | |
| Legend | | | | | | | | | | | | | | | | | |
| GWP | Global warming potential (GWP ₁₀₀) | | | | | SM | Secondary materials | | | | | B1 | Use | | | | |
| AP | Acidification potential | | | | | RSF | Renewable secondary fuels | | | | | B2 | Maintenance | | | | |
| EP | Eutrophication potential | | | | | NRSF | Non-renewable secondary fuels | | | | | B3 | Repair | | | | |
| SFP | Smog formation potential | | | | | FW | Consumption of fresh water | | | | | B4 | Replacement | | | | |
| ODP | Ozone depletion potential | | | | | HWD | Hazardous waste disposed | | | | | B5 | Refurbishment | | | | |
| NRPR _E | Non-renewable primary resources used as an energy carrier | | | | | NHWD | Non-hazardous waste disposed | | | | | B6 | Operational energy use | | | | |
| NRP _M | Non-renewable primary resources with energy content used as a material | | | | | HLRW | High-level radioactive waste | | | | | B7 | Operational water use | | | | |
| RPR _E | Renewable primary resources used as an energy carrier | | | | | ILLRW | Intermediate/low-level radioactive waste | | | | | C1 | De-construction/Demolition | | | | |
| RPR _M | Renewable primary resources with energy content used as a material | | | | | A1-3 | Production stage | | | | | C2 | Waste transport | | | | |
| RE _{DWPS} | Recovered energy from disposal of waste in previous systems | | | | | A4 | Transport to site | | | | | C3 | Waste processing | | | | |
| ADP _{fossil} | Abiotic depletion potential for fossil resources used as energy and materials | | | | | A5 | Installation | | | | | C4 | Disposal | | | | |

Note: "E±Y" means "× 10^{±Y}", e.g. "2.8E-1" means 0.28. Module D is not declared.

*Significant data limitations currently exist within the LCI data used to generate waste metrics for life cycle assessments and environmental product declarations. The waste metrics were calculated in a way conformant with the requirements of ISO 21930:2017, but these values represent rough estimates (foreground only) and are for informational purposes only. As such, no decisions regarding actual cradle-to-grave waste performance between products should be derived from these reported values.

Table 39: Biogenic CO₂ removal and emissions, carbon content bio-based products, per module, in kg CO₂-eq per m² coated surface

| Cradle-to-grave results, in kg CO ₂ -eq per 1 m ² of coated surface | | | | | | | | | | | | | | | |
|---|-----------|-----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Indicators | Total | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
| Commercial Market | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | -9.31E-01 | -9.31E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | - | -1.23E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | -2.19E-03 | -2.19E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | -8.77E-02 | -1.44E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -7.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | -1.10E-03 | -1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | - | -1.84E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.49E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Commercial Technical | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | -9.31E-01 | -9.31E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | - | -1.23E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | -2.19E-03 | -2.19E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | -8.77E-02 | -1.44E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -7.34E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | -1.10E-03 | -1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | - | -1.84E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.49E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Market | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | -1.10E-03 | -1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | -1.53E-02 | -2.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.28E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | -4.69E-01 | -4.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.24E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur EC | -6.69E-03 | -1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -5.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | - | -1.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | - | -1.12E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | - | -1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | -5.38E-01 | -4.61E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -7.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Technical | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | -1.10E-03 | -1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | -1.53E-02 | -2.51E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.28E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | -4.69E-01 | -4.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.24E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur EC | -6.69E-03 | -1.10E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -5.60E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | - | -1.42E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.48E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | - | -1.12E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | - | -1.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.97E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | -5.38E-01 | -4.61E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -7.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

Table 40: Biogenic CO₂ removal and emissions, carbon content bio-based packaging, per module, in kg CO₂-eq per m² coated surface

| Cradle-to-grave results, in kg CO ₂ -eq per 1 m ² of coated surface | | | | | | | | | | | | | | | |
|---|-----------|-----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Indicators | Total | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
| Commercial Market | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | -7.03E-02 | -4.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.57E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | -1.52E-02 | -1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -9.12E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | -4.11E-02 | -3.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -9.76E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Commercial Technical | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | -5.75E-02 | -4.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.29E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | -1.47E-02 | -1.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -4.56E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | -3.62E-02 | -3.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -4.88E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Market | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | -5.57E-02 | -3.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.44E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® EC | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | -1.23E-01 | -1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.97E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | -8.54E-02 | -5.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -3.36E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | -3.37E-02 | -1.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | -4.59E-02 | -3.58E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.01E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Technical | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | -4.60E-02 | -3.13E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -1.46E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® EC | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | -1.13E-01 | -1.03E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -9.87E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | -7.19E-02 | -5.18E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -2.02E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | -2.79E-02 | -1.91E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -8.77E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | -4.09E-02 | -3.58E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -5.03E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

Table 41: Biogenic CO₂ emissions, combustion of waste from renewable sources used in product processes, in kg CO₂-eq per m² coated surface

| Cradle-to-grave results, in kg CO ₂ -eq per 1 m ² of coated surface | | | | | | | | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicators | Total | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
| Commercial Market | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 1.78E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | 1.44E-02 | 0.00E+00 | 0.00E+00 | 1.44E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | 2.10E-05 | 0.00E+00 | 0.00E+00 | 2.10E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | 2.88E-04 | 0.00E+00 | 0.00E+00 | 2.88E-04 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | 6.01E-06 | 0.00E+00 | 0.00E+00 | 6.01E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | 1.66E-02 | 0.00E+00 | 0.00E+00 | 1.66E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Commercial Technical | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | 4.85E-03 | 0.00E+00 | 0.00E+00 | 4.85E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | 3.94E-03 | 0.00E+00 | 0.00E+00 | 3.94E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | 5.72E-06 | 0.00E+00 | 0.00E+00 | 5.72E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | 7.84E-05 | 0.00E+00 | 0.00E+00 | 7.84E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | 1.64E-06 | 0.00E+00 | 0.00E+00 | 1.64E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | 4.52E-03 | 0.00E+00 | 0.00E+00 | 4.52E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Market | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | 3.28E-06 | 0.00E+00 | 0.00E+00 | 3.28E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | 2.33E-05 | 0.00E+00 | 0.00E+00 | 2.33E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | 5.09E-03 | 0.00E+00 | 0.00E+00 | 5.09E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® EC | 1.20E-05 | 0.00E+00 | 0.00E+00 | 1.20E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Technical | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | 4.00E-02 | 0.00E+00 | 0.00E+00 | 4.00E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | 9.43E-02 | 0.00E+00 | 0.00E+00 | 9.43E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 5.86E-02 | 0.00E+00 | 0.00E+00 | 5.86E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | 5.84E-02 | 0.00E+00 | 0.00E+00 | 5.84E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® EC | 8.69E-02 | 0.00E+00 | 0.00E+00 | 8.69E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 2.98E-02 | 0.00E+00 | 0.00E+00 | 2.98E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

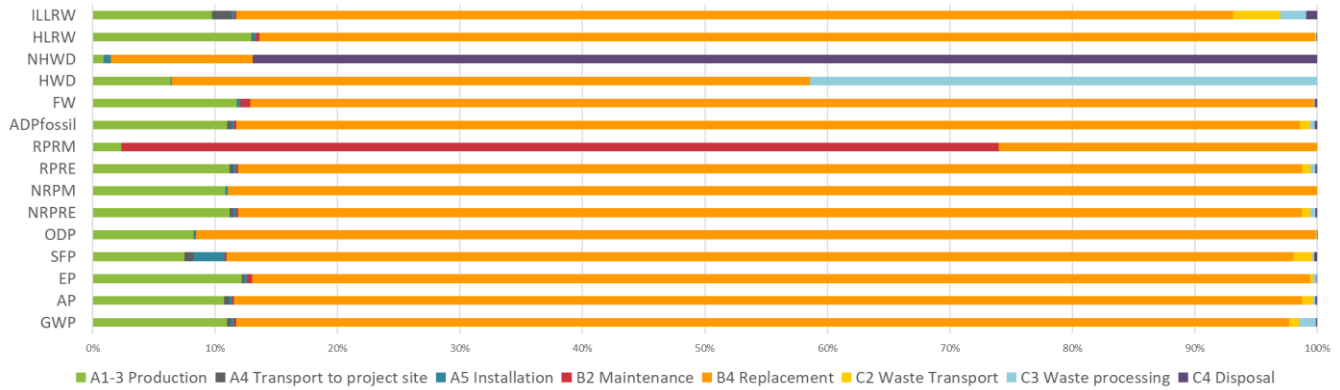
Table 42: CO₂ emissions, combustion of waste from non-renewable sources used in product processes, in kg CO₂-eq per m² coated surface

| Cradle-to-grave results, in kg CO ₂ -eq per 1 m ² of coated surface | | | | | | | | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicators | Total | A1-3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
| Commercial Market | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | 1.11E+00 | 3.26E-01 | 0.00E+00 | 7.83E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | 2.56E+00 | 6.36E-01 | 0.00E+00 | 1.93E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | 1.17E+00 | 4.21E-01 | 0.00E+00 | 7.49E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | 1.49E+00 | 4.51E-01 | 0.00E+00 | 1.04E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | 2.66E-01 | 1.26E-01 | 0.00E+00 | 1.40E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | 1.45E+00 | 5.94E-01 | 0.00E+00 | 8.56E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | 2.68E+00 | 7.40E-01 | 0.00E+00 | 1.94E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Commercial Technical | | | | | | | | | | | | | | | |
| Sika ComfortFloor® PS 23 | 1.06E+00 | 3.12E-01 | 0.00E+00 | 7.50E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sika ComfortFloor® PS 65 | 2.50E+00 | 6.21E-01 | 0.00E+00 | 1.88E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Flake | 1.02E+00 | 3.66E-01 | 0.00E+00 | 6.52E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Granite | 1.45E+00 | 4.37E-01 | 0.00E+00 | 1.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Metallic | 2.20E-01 | 1.04E-01 | 0.00E+00 | 1.15E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® DecoDur® Quartz | 1.33E+00 | 5.46E-01 | 0.00E+00 | 7.88E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Pulastic Classic 90 | 2.64E+00 | 7.29E-01 | 0.00E+00 | 1.91E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Market | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | 1.80E+00 | 7.36E-01 | 0.00E+00 | 1.06E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | 3.97E+00 | 9.02E-01 | 0.00E+00 | 3.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 1.12E+00 | 3.61E-01 | 0.00E+00 | 7.61E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | 1.13E+00 | 3.64E-01 | 0.00E+00 | 7.66E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® EC | 2.84E+00 | 6.87E-01 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 3.83E-01 | 1.85E-01 | 0.00E+00 | 1.99E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | 1.63E+00 | 1.63E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | 1.11E+00 | 1.11E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | 7.29E-01 | 7.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | 5.85E-01 | 5.85E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Industrial Technical | | | | | | | | | | | | | | | |
| Sikafloor® DecoDur® Quartz | 1.57E+00 | 6.41E-01 | 0.00E+00 | 9.24E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® ESD | 3.97E+00 | 9.02E-01 | 0.00E+00 | 3.07E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® ES | 8.68E-01 | 2.79E-01 | 0.00E+00 | 5.89E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® Merflex® PS | 9.12E-01 | 2.94E-01 | 0.00E+00 | 6.18E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® EC | 2.84E+00 | 6.87E-01 | 0.00E+00 | 2.15E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® MultiDur® HS | 3.83E-01 | 1.85E-01 | 0.00E+00 | 1.99E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® TG | 1.58E+00 | 1.58E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL+ | 1.01E+00 | 1.01E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® SL | 6.29E-01 | 6.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Sikafloor® PurCem® VG | 5.59E-01 | 5.59E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

4.6. Life cycle impact assessment – interpretation

Sikafloor® MultiDur EC – 5-year industrial market service life

The interpretation of the Sikafloor® MultiDur EC system results (Table) is presented in this section. Due to the high number of studied products, this system was selected as a typical resinous floor coating system for the interpretation.



| | | | |
|-------------------------|---|-----------------------------|--|
| <i>GWP</i> | <i>Global warming potential (GWP₁₀₀)</i> | <i>RPR_M</i> | <i>Renewable primary resources with energy content used as a material</i> |
| <i>AP</i> | <i>Acidification potential</i> | <i>ADP_{fossil}</i> | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> |
| <i>EP</i> | <i>Eutrophication potential</i> | <i>FW</i> | <i>Consumption of fresh water</i> |
| <i>SFP</i> | <i>Smog formation potential</i> | <i>HWD</i> | <i>Hazardous waste disposed</i> |
| <i>ODP</i> | <i>Ozone depletion potential</i> | <i>NHRW</i> | <i>Non-hazardous waste disposed</i> |
| <i>NRPR_E</i> | <i>Non-renewable primary resources used as an energy carrier</i> | <i>HLRW</i> | <i>High-level radioactive waste</i> |
| <i>NRPR_M</i> | <i>Non-renewable primary resources with energy content used as a material</i> | <i>ILLRW</i> | <i>Intermediate/low-level radioactive waste</i> |
| <i>RPR_E</i> | <i>Renewable primary resources used as an energy carrier</i> | | |

Figure 3: Relative contribution of life cycle modules to potential environmental impacts for 1 m² of Sikafloor® MultiDur EC (average coverage, 5-yr industrial market service life)⁴

Potential environmental impact indicators (GWP, AP, EP, SFP, ODP)

Firstly, as observed in Figure 3 for the resinous floor system, the **replacements (B4)** are the main contributor to most indicators (roughly 70 to 80%). This is due mainly to the raw materials needed to manufacture the replacement products, especially the epoxy resin. Secondly, the **production of materials (A1-A3)** is an important contributor, accounting for roughly 10 to 20% of most indicators. Together, the production stage (A1-A3) and replacements (B4) account for more than 95% of most indicators. All other modules are less significant, including

⁴ Modules B1, B3, B5, B6, B7 and C1 are null.



Sika's operations. An exception is the eutrophication potential indicator, where the **disposal of waste (C4)** is a big contributor (50%) and replacements (B4) are less impactful than for other indicators (around 35%).

Resource use indicators (NRPR_E, RPP_M, RPR_M, ADP_{fossil}, FW)

For these indicators, the conclusions are the same as for the environmental indicators except for renewable primary resources with energy content used as material, where **maintenance (B2)** accounts for most of the resource use.

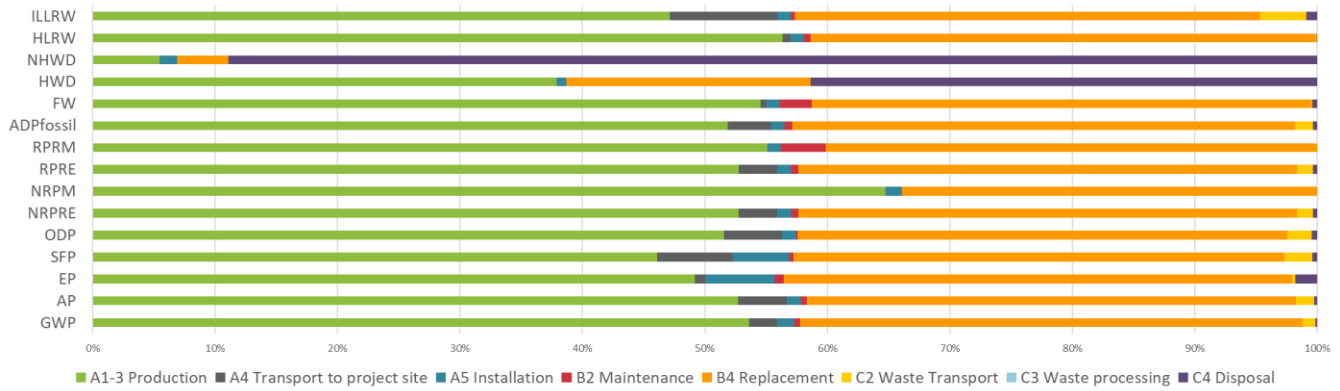
Waste generation indicators (HWD, NHWD, HLRW, ILLRW)

Most of disposed waste is attributed to the **C4 module**, the **end of life**, and is classified as non-hazardous. It includes the initial applied system, all replacement recoats and all non-hazardous unused coating (losses during installation and replacements) over the 60-year period. Hazardous waste is mostly generated during the manufacturing of products used for **replacements (B4)** and when hazardous solvent-based unused products generated during installation (A5) and replacements (B4) are sent to incineration (**waste processing [C3]**).



Sikafloor® PurCem® SL – 10-year industrial market service life

The interpretation of the Sikafloor® PurCem® SL system results (Table) is presented in this section. Due to the high number of studied products, this system was selected as a typical cementitious floor system for the interpretation.



| | | | |
|-------------------------|---|-----------------------------|--|
| GWP | <i>Global warming potential (GWP₁₀₀)</i> | RPR_M | <i>Renewable primary resources with energy content used as a material</i> |
| AP | <i>Acidification potential</i> | ADP_{fossil} | <i>Abiotic depletion potential for fossil resources used as energy and materials</i> |
| EP | <i>Eutrophication potential</i> | FW | <i>Consumption of fresh water</i> |
| SFP | <i>Smog formation potential</i> | HWD | <i>Hazardous waste disposed</i> |
| ODP | <i>Ozone depletion potential</i> | NHWD | <i>Non-hazardous waste disposed</i> |
| NRPR_E | <i>Non-renewable primary resources used as an energy carrier</i> | HLRW | <i>High-level radioactive waste</i> |
| NRPR_M | <i>Non-renewable primary resources with energy content used as a material</i> | ILLRW | <i>Intermediate/low-level radioactive waste</i> |
| RPR_E | <i>Renewable primary resources used as an energy carrier</i> | | |

Figure 4: Relative contribution of life cycle modules to potential environmental impacts for 1 m² of Sikafloor® PurCem® SL (average coverage, 10-yr industrial market service life)⁵

Potential environmental impact indicators (GWP, AP, EP, SFP, ODP)

The PurCem floor system is a thick cementitious system containing mostly cement and sand. Therefore, as observed in Figure 4, the life cycle impacts of the **production stage (A1-A3)** for the initial system are significant, accounting for roughly 55% of the life cycle. After the production stage (A1-A3), **replacements (B4)** are a main contributor accounting for roughly 40% of the impact for all indicators.

Resource use indicators (NRPR_E, RPP_M, RPR_M, ADP_{fossil}, FW)

The material use indicators are dominated by the **production stage (A1-A3)** and **replacement (B4)** together representing over 90% of the impact for all indicators. Their relative contribution to all the resource use indicators are roughly 50/50.

⁵ Modules B1, B3, B5, B6, B7 and C1 are null.



Waste generation indicators (HWD, NHWD, HLRW, ILLRW)

Most of disposed waste is attributed to the **C4 module**, the **end of life**, and is classified as non-hazardous. It includes the initial applied system, all replacement recoats and all non-hazardous unused coating (losses during installation and replacements) over the 60-year period. Hazardous waste is mostly generated during the manufacturing of products used for the initial applied system (**production [A1-3]**) and **replacements (B4)** and when hazardous water based unused products generated during installation (A5) and replacements (B4) are sent to a landfill (**Disposal [C4]**)



5. Additional environmental information

This section provides additional relevant environmental information about the manufacturer and the floor systems that was not derived from the LCA.

VOC content

The VOC content was measured according to EPA Method 24 or ASTM D2369 standard methods. The products contained in this EPD were categorized Industrial Maintenance Coatings under South Coast Air Quality Management District (SCAQMD) Rule 1113 Architectural Coatings (Published on February 5, 2016). Sika Corporation discloses the VOC content of its product on the Safety Data Sheet. To access the latest version of Sika's Safety Data Sheets please visit <https://usa.sika.com/en/downloads/data-sheets.html>. For a listing of Sika products that have been testing in accordance with CDPH Standard Method Version 1.2-2017 VOC emissions testing please visit <https://usa.sika.com/en/construction/floor-wall/resource-center/sustainability/leed.html>.

Table 5-1: VOC content of products

| Products | VOC content (g/L) |
|---|-------------------|
| Pulastic® EG | 5 |
| Pulastic Coating-221 W | < 45 |
| Pulastic® GM-1500 | 15 |
| Pulastic® Linepaint OE/LP | No data available |
| Tacly ST | 5 |
| Shock pad (7 mm) | 0 |
| Sikafloor® Comfort Adhesive | 5 |
| Sika® DecoDur Granite Aggregate | n/a |
| Sika Decorative Vinyl Flake | n/a |
| Sika® Metallic Powder | n/a |
| Sikadur®-508 Medium Broadcast Aggregate | n/a |
| Sikafloor® Comfort Regupol-6015 H | n/a |
| Sikafloor® Comfort Porefiller | 5 |
| Sikafloor®-305 W NA | 0 |
| Sikafloor®-330 | 25 |
| Sikafloor®-161 | 62 |
| Sikafloor®-1620 | 11 |
| Sikafloor®-165 FS | 62 |
| Sikafloor®-19 NA PurCem® | 5 |
| Sikafloor®-19 NA PurCem® FS | 5 |
| Sikafloor®-200 C ESD | 49 |
| Sikafloor®-217 | 34 |
| Sikafloor®-218 DF | 34 |
| Sikafloor®-22 NA PurCem® | 5 |
| Sikafloor®-22 NA PurCem® FS | 44 |
| Sikafloor®-220 W Conductive | 27 |
| Sikafloor®-225 N | 26 |
| Sikafloor®-24 NA PurCem® | 5 |



| Products | VOC content (g/L) |
|------------------------------------|-------------------|
| Sikafloor®-24 NA PurCem® FS | 5 |
| Sikafloor®-2540 W NA | 24 |
| Sikafloor®-2570 | 28 |
| Sikafloor®-264 | 43 |
| Sikafloor®-265 | 2 |
| Sikafloor®-29 NA PurCem® | 5 |
| Sikafloor®-29 NA PurCem® FS | 5 |
| Sikafloor®-304 W NA | 31 |
| Sikafloor®-31 NA PurCem® | 5 |
| Sikafloor®-31 NA PurCem® FS | 5 |
| Sikafloor®-315 N | 51 |
| Sikafloor®-316 N | 19 |
| Sikafloor®-340 | 279 |
| Sikafloor®-511 | 34 |
| Sikafloor®-Decorative Quartz | 0 |
| Sikafloor® SCO Color Additive | 0 |
| Sikafloor®-Urethane Color Additive | 75 |

Waste packaging management

Sika Corporation encourages its customers to responsibly dispose of used packaging. Most of them are recyclable. To make recycling easier, it is recommended to separate used packaging according to its material (paper, plastic and metal). Find information from local municipalities about recycling programs for industrial coating packaging.



6. GLOSSARY

6.1. Acronyms

| | |
|-------------------------------|---|
| ADP_{fossil,E} | Abiotic depletion potential for fossil resources used as energy and materials |
| AP | Acidification potential |
| CSA | Canadian Standards Association |
| EP | Eutrophication potential |
| FW | Consumption of fresh water |
| GHG | Greenhouse gas |
| GWP | Global warming potential |
| HLRW | High-level radioactive waste |
| HWD | Hazardous waste disposed |
| ILLRW | Intermediate/low-level radioactive waste |
| ISO | International Organization for Standardization |
| kg CFC-11 eq. | Kilogram of trichlorofluoromethane equivalent |
| kg CO₂ eq. | Kilogram of carbon dioxide equivalent |
| kg N eq. | Kilogram of nitrogen equivalent |
| kg O₃ eq. | Kilogram of ozone equivalent |
| kg SO₂ eq. | Kilogram of sulphur dioxide equivalent |
| L | litre |
| LCA | Life cycle assessment |
| LEED | Leadership in Energy and Environmental Design |
| LHV | Lower heating value |
| MJ | Megajoule |
| m² | Square meter |
| m³ | Cubic meter |
| NHWD | Non-hazardous waste disposed |
| NRPRE | Non-renewable primary resources used as an energy carrier |
| NRPRM | Non-renewable primary resources with energy content used as a material |
| NRSF | Non-renewable secondary fuels |
| ODP | Ozone depletion potential |
| PCR | Product category rules |
| RE_{DWPS} | Recovered energy from disposal of waste in previous systems |
| RPRE | Renewable primary resources used as an energy carrier |
| RPRM | Renewable primary resources with energy content used as a material |
| RSF | Renewable secondary fuels |
| SCAQMD | South Coast Air Quality Management District |
| SFP | Smog formation potential |
| SM | Secondary materials |
| VOC | Volatile organic compound |



6.2. Environmental impact categories and parameters assessed

The **acidification potential** refers to the change in acidity (i.e., reduction in pH) in soil and water due to human activity. The increase in NO_x and SO₂ emissions generated by the transportation, manufacturing and energy sectors are the main causes of this impact category. The acidification of land and water has multiple consequences: degradation of aquatic and terrestrial ecosystems, endangering numerous species and food security. The concentration of the gases responsible for the acidification is expressed in sulphur dioxide equivalents (**kg SO₂ equivalent**).

The **eutrophication potential** measures the enrichment of an aquatic or terrestrial ecosystem due to the release of nutrients (e.g., nitrates, phosphates) resulting from natural or human activity (e.g., the discharge of wastewater into watercourses). In an aquatic environment, this activity results in the growth of algae which consume dissolved oxygen present in water when they degrade and thus affect species sensitive to the concentration of dissolved oxygen. Also, the increase in nutrients in soils makes it difficult for the terrestrial environment to manage the excess of biomass produced. The concentration of nutrients causing this impact is expressed in nitrogen equivalents (**kg N equivalent**).

Net fresh water consumption accounts for the imbalance in the natural water cycle created by the water evaporated, consumed by a system or released to a different watershed (i.e., not its original source). This imbalance can cause water scarcity and affect biodiversity. This indicator refers to the waste of the resource rather than its pollution. Also, it does not refer to water that is used but returned to the original source (e.g., water for hydroelectric turbines, cooling or river transportation) or lost from a natural system (e.g., due to evaporation of rainwater). The quantity of freshwater consumed is expressed as a volume of water in meter cube (**m³ of water consumed**).

The **global warming potential** refers to the impact of a temperature increase on the global climate patterns (e.g., severe flooding and drought events, accelerated melting of glaciers) due to the release of greenhouse gases (GHG) (e.g., carbon dioxide and methane from fossil fuel combustion). GHG emissions contribute to the increase in the absorption of radiation from the sun at the earth's surface. These emissions are expressed in units of kg of carbon dioxide equivalents (**kg CO₂ equivalent**).

The **ozone depletion potential** indicator measures the potential of stratospheric ozone level reduction due to the release of some molecules such as refrigerants used in cooling systems (e.g., chlorofluorocarbons). When they react with ozone (O₃), the ozone concentration in the stratosphere diminishes and is no longer sufficient to absorb ultraviolet (UV) radiation which can cause high risks to human health (e.g., skin cancers and cataracts) and the terrestrial environment. The concentration of molecules that are responsible for ozone depletion is expressed in kilograms of trichlorofluoromethane equivalents (**kg CFC-11 equivalent**).

The **smog formation potential** indicator covers the emissions of pollutants such as nitrogen oxides and volatile organic compounds (VOCs) into the atmosphere. They are mainly generated by motor vehicles, power plants and industrial facilities. When reacting with the sunlight, these pollutants create smog which can affect human health and cause various respiratory problems. The concentration of pollutants causing smog are expressed in kg of ozone equivalents (**kg O₃ equivalent**).



The **renewable/non-renewable primary energy consumption** parameters refer to the use of energy from renewable resources (e.g., wind, solar, hydro) and non-renewable resources (e.g., natural gas, coal, petroleum). The quantity of primary energy used is expressed in megajoules, on the basis of the lower heating value of the resources (**MJ, LHV**).

The **renewable/non-renewable material resources consumption** parameters represent the quantity of material made from renewable resources or non-renewable resources used to manufacture a product, excluding recovered or recycled materials. The quantity of these resources is reported in kilograms (**kg, MJ**).

The **abiotic depletion potential of fossil resources** measures the removal of abiotic (non-living) resources from the earth, or the depletion of non-living material resources. It refers to fossil resources used for energy and materials. The quantity of these resources is reported in megajoules (**MJ**).

The **waste** parameters represent the quantity of waste produced. This includes hazardous and non-hazardous waste as well as radioactive waste. The quantity of waste is reported in kilograms (**kg**).

The **biogenic carbon and additional carbon flows track carbon** uptake and emissions for biobased products, biobased packaging, waste from renewable and non-renewable sources.



7. REFERENCES

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