



ENVIRONMENTAL **PRODUCT DECLARATION**

SILCOR[®]

LIQUID WATERPROOFING

- SILCOR[®] 900HA (PART A AND PART B)
- SILCOR[®] 900MP (PART A AND PART B)

GCP is a leading global provider of construction products that include high-performance specialty construction chemicals and building materials.



Program Operator	NSF Certification LLC 789 N. Dixboro, Ann Arbor, MI 48105 www.nsf.org	 
General Program Instructions	NSF Program Operator Rules, February 2015	
Manufacturer Name and Address	GCP Applied Technologies Inc. 2325 Lakeview Parkway Alpharetta GA 30009 USA	
Declaration Number	EPD10791	
Declared Product and Functional Unit	SILCOR® 900HA, SILCOR® 900MP Functional Unit: 1 m2 of product	
Reference PCR and Version Number	ASTM International Water-Resistive and Air Barriers	
Product's intended Application and Use	Waterproofing Systems	
Product RSL	Not Applicable	
Markets of Applicability	North America	
Date of Issue	September 26, 2022	
Period of Validity	5 years from date of issue	
EPD Type	Product Specific	
Intended Audience	Business-to-Business	
Range of Dataset Variability	N/A	
EPD Scope	Cradle to Gate	
Year of reported manufacturer primary data	2020	
LCA Software and Version Number	GaBi 10.6.1.35	
LCI Database and Version Number	GaBi Database 2022.1	

LCIA Methodology and Version Number

TRACI 2.1

The PCR Review was Conducted By:Thomas Gloria, PhD (chair)
Graham Finch
Paul H. Shipp

This declaration was independently verified in accordance with ISO 14025:2006. ISO 21930:2017 serves as the core PCR along with EN 15804 (2012) and UL PCR Part A, v3.1 (2018), with additional considerations from the UL PCR Part B: Insulated Metal Panels Metal Composite Panels and Metal Cladding - Roof and Wall Panels.

 Internal ExternalTony Favilla
afavilla@nsf.org**This Reference Life Cycle Assessment was Conducted in Accordance with ISO 14044 and the Reference PCRs By:**

WAP Sustainability Consulting

This Life Cycle Assessment was Independently Verified in Accordance with ISO 14044 and the Reference PCR By:Jack Geibig
jgeibig@ecoform.com**Limitations:**

Environmental declarations from different programs (ISO 14025) may not be comparable. Comparison of the environmental performance of Products using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the building energy use phase as instructed under this PCR. Full conformance with the PCR for Products allows EPD comparability only when all stages of a life cycle have been considered. However, variations and deviations are possible". Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared. As this EPD is based on a declared unit, the results cannot be used to compare between products.

1 Product Definition and Information

1.1 DESCRIPTION OF COMPANY

GCP is a leading global provider of construction products that include high-performance specialty construction chemicals and building materials. GCP partners with producers, contractors, designers, and engineers to achieve performance and sustainability goals. The company has a legacy of first to market and award-winning solutions that have been used to build some of the world's most renowned structures. GCP is focused on continuous improvement for its customers, end-users, and the environment.

1.2 PRODUCT DESCRIPTION

SILCOR® 900HA

SILCOR® 900HA liquid waterproofing is a two-component, hand-applied seamless liquid waterproofing that is typically foot-trafficable after two hours of application. SILCOR® 900HA forms a fully-bonded waterproof membrane that is extremely durable, offers excellent wear and chemical resistance, and has a high tolerance against mechanical damage.



SILCOR® 900MP

SILCOR® 900MP waterproofing is a premium performance, two-component, spray-applied, seamless waterproofing membrane that cures within two minutes to form a high-strength, elastomeric, and fully-bonded waterproof membrane. SILCOR® 900MP waterproofing is extremely durable, with excellent wear and chemical resistance, and does not normally require additional protection against mechanical damage.



1.3 APPLICATION

A waterproofing membrane is a layer of water-tight material that lies on a surface to prevent water leaks or damages. The products assessed here are liquid-applied membranes. The objective of waterproofing is to secure a building from all kinds of water damages and prevent further repair work on the structure.

1.4 PRODUCT DESCRIPTION

Table 1: SILCOR® 900HA Technical Data

Property	Typical Value SILCOR® 900HA	Test Method
Color	Green	-
Resistance to Hydrostatic Head Over post formed crack head	230 ft	ASTM D5385
Tensile Strength	1450 psi	ASTM D412
Elongation	450%	ASTM D412
Tear Strength	>280 lb/in	ASTM D624 C
Adhesion to Concrete	Concrete failure or 2MP and above ¹	ASTM D4541
Shore Hardness	75 A	ASTM D2240
Low Temperature Crack Bridging	Pass	ASTM C836
Abrasion Resistance (Taber Wear Index)	200 mg ²	ASTM D4060
Water Vapor Permeance	0.5 perms, with primer	ASTM E96B
Solids Content	100%	ASTM D1644
Density (Resin, Iso) ¹	9.5 lb/gal 8.9 lb/gal	-
Coverage Rate (80 mil thickness)	16.4 ft ² /gal 39 ft ² /kit	Internal
Pot Life	up to 8 minutes ₃	Internal
Working Time	up to 15 minutes ₃	Internal
Tack-Free Time	30 minutes ₃	Internal

Footnote: **1.** Tested on prepared, primed, and sand blended concrete, **2.** H18/1000 cycles/1000g, **3.** At 73 °F

Table 2: SILCOR® 900MP Technical data

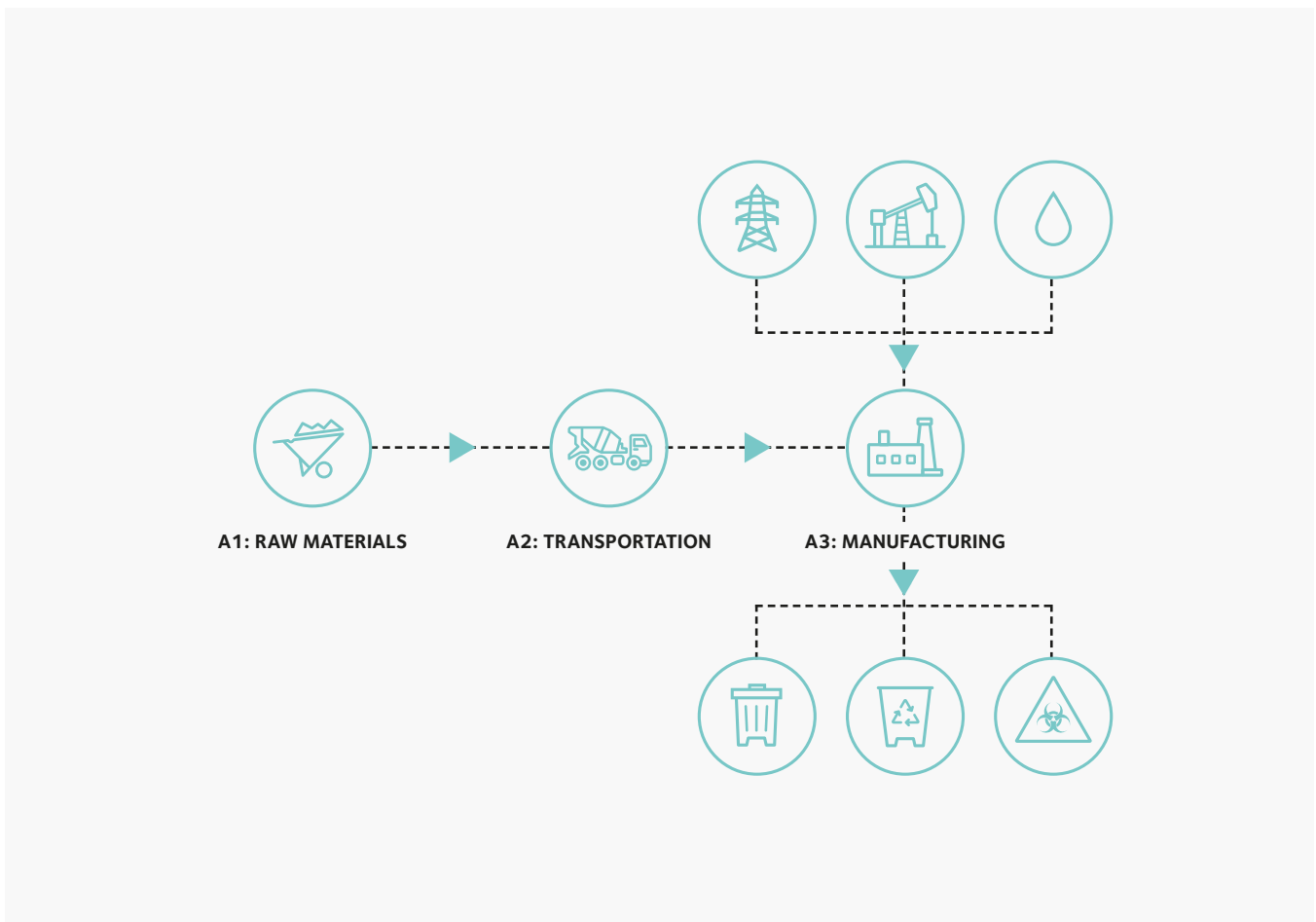
Property	Typical Value SILCOR® 900MP	Test Method
Color	Green	-
Tensile Strength	4090 psi	ASTM D412
Tear Resistance	487 lb/in	ASTM D751
Adhesion to Concrete	479 psi	ASTM D4541
Low Temperature Crack Bridging	Pass	ASTM C836
Shore Hardness	91A	ASTM 2240
Viscosity - Resin	400-600 cps ²	Brookfield Viscometer
Viscosity - Iso	800-1200 cps ²	Brookfield Viscometer
Solids Content	100%	ASTM D1644
Density (Resin, Iso)	8.6 lb/gal 9.2 lb/gal	ASTM D4541
Coverage Rate (80 mil thickness)	16.4 ft ² /gal 1800 ft ² /kit	Internal
Gel Time	5 sec ²	Internal
Tack-Free Time	8 sec ²	Internal
Trafficable (foot traffic)	2 mins ²	Internal

Footnote: **1.** Tested on prepared, primed, and sand blended concrete or steel, **2.** Measured at 77°F

1.5 DECLARATION OF METHODOLOGICAL FRAMEWORK

This EPD is considered a Cradle-to-Gate study. A summary of the life cycle stages included in this EPD is presented in 2.2. No known flows are deliberately excluded from this EPD. Third party verified ISO 14040/44 secondary LCI data sets contribute more than 67% of total impacts in all impact categories required by the PCR.

1.6 PROCESS FLOW DIAGRAM



1.7 MANUFACTURING

Raw materials are sourced from suppliers within Europe and are transported to the manufacturing facility at the Belgium facility by a combination of truck and train transportation.

1.8 MATERIAL COMPOSITION

Table 3: Material Composition per declared unit of 1 m² of product for installation

Materials	SILCOR® 900HA Part A	SILCOR® 900HA Part B	SILCOR® 900MP Part A	SILCOR® 900MP Part B
DMTDA	60.6%	-	-	-
Silicone-free Defoamer / Air Release Additive	31.1%	-	-	-
Pigment / Other	8.3%	-	-	3.7%
MDI	-	20.5%	100%	-
Polyols	-	79.5%	-	-
MDI	-	-	-	-
Polypropylene Glycol	-	-	-	70.5%
DETDA	-	-	-	25.9%

This product contains no regulated substances.

1.9 PACKAGING

Table 4: Packaging requirements per functional unit of 1 m² of product for installation

	SILCOR® 900HA Part A	SILCOR® 900HA Part B	SILCOR® 900MP Part A	SILCOR® 900MP Part B	UNIT
Carton	0.020	-	-	-	kg/m ²
Plastic	0.011	0.079	-	-	kg/m ²
Steel	-	0.275	0.108	0.108	kg/m ²

Packaging waste disposal has been modeled as per guidelines in section 2.8.5 of Part A: Life Cycle Assessment Calculation Rules and Report Requirements.

2

Life Cycle Assessment Background Information

2.1 DECLARED UNIT

The declared unit according to the PCR is 1 m² of product for installation. Note that environmental impact results for fluid applied products will be proportional to dry product thickness if applied for a specific application to a thickness other than the one specified below.

Table 5: Declared Unit

	SILCOR® 900HA Part A	SILCOR® 900HA Part B	SILCOR® 900MP Part A	SILCOR® 900MP Part B
Declared Unit	1m ²	1m ²	1m ²	1m ²
Weight (kg)	0.275	2.479	1.085	1.343
Density	1.2	1.1	1.1	1.1
Dry product thickness	2.0	2.0	2.0	2.0
Solids %	100%	100%	100%	100%

2.2 SYSTEM BOUNDARY

This EPD is considered a Cradle-to-Gate study. A summary of the life cycle modules included in this EPD is presented in Table 3. Modules A4-A5, B1-B4 and C1-C4 were not declared. Infrastructure flows have been excluded.

Table 6: Summary of Included Life-Cycle Modules

Module	Description
A1	Product Stage: Raw Material Supply
A2	Product Stage: Transport
A3	Product Stage: Manufacturing

2.3 ESTIMATES AND ASSUMPTIONS

All estimates and assumptions are within the requirements of ISO 14040/44. Most of the estimations are within the primary data. The primary data was collected as annual totals including all material inputs, utility usage and production information. For the LCA, the total utility usage information was divided by the annual input of all materials and then allocated to the product based on its material composition.

2.4 CUTOFF CRITERIA

Material inputs greater than 1% (based on total mass of the final product) were included within the scope of analysis. Material inputs less than 1% were included if sufficient data was available to warrant inclusion and/or the material input was thought to have significant environmental impact. Cumulative excluded material inputs and environmental impacts are less than 5% based on total weight of the functional unit. No known flows are deliberately excluded from this EPD.

2.5 DATA SOURCES

Primary data were collected by GCP associates for onsite energy, water, and waste during manufacturing. Whenever available, supplier data were used for raw materials used in the production process. When primary data did not exist, secondary data for raw material production were used from GaBi Database 2022.1. All calculation procedures adhere to ISO 14044.

2.6 DATA QUALITY

The geographical scope of the manufacturing portion of the life cycle is Mt Pleasant, TN and Chicago, IL. All primary data were collected from the manufacturer. The geographic coverage of primary data is considered excellent. Primary data were provided by the manufacturer and represent all information for calendar year 2020. Secondary data meets the requirement of the PCR that all data be updated within a 10- year period. Primary data provided by the manufacturer is specific to the technology that the company uses in manufacturing their product. It is site-specific and considered of good quality. Data used to allocate energy and water on a per unit of product produced includes overhead energy such as lighting, heating, and sanitary use of water. Sub-metering was not available to extract process only energy and water use from the total energy use. Sub-metering would improve the technological coverage of data quality.

2.7 PERIOD UNDER REVIEW

The period under review is calendar year 2020.

2.8 ALLOCATION

General principles of allocation were based on ISO 14040/44. The manufacturing processes at GCP, studied in this LCA, produces different types of construction products that are similar in product specifications. A mass-based allocation method was adopted for this study. The manufacturing inputs and wastes were allocated on a mass basis to the product. As a default, secondary GaBi datasets use a physical mass basis for allocation. Throughout the study recycled materials were accounted for via the cut-off method.

3

Life Cycle Assessment Results

All results are given per functional unit, which is 1 m² of applied waterproofing or air-barrier. Environmental impacts were calculated using the GaBi software platform. Impact results have been calculated using IPCC AR5 and TRACI 2.1 characterization factors. LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks. These impact categories are globally deemed mature enough to be included in Type III environmental declarations. Other categories are being developed and defined and LCA should continue making advances in their development, however the EPD users shall not use additional measures for comparative purposes. Emerging LCA impact categories and inventory items are still under development and can have high levels of uncertainty that preclude international acceptance pending further development. Use caution when interpreting data in these categories.

Table 7: Description of the System Boundary Modules

	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
	Raw Material Supply	Transport	Manufacturing	Transport From Gate to Site	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbishment	Building Operational Energy Use During Product Use	Building Operational Water Use During Product Use	Deconstruction	Transport	Waste Processing	Disposal	Reuse, Recovery, Recycling Potential
CRADLE TO GRAVE	X			MND		MND							MND				MND

Table 8: LCIA Indicators

Abbreviation	Parameter	Unit
IPCC AR 5		
GWP	Global warming potential (100 years, excludes biogenic CO ₂)	kg CO ₂ eq
TRACI 2.1		
AP	Acidification potential of soil and water	kg SO ₂ eq

EP	Eutrophication potential	kg N eq
GWP	Global warming potential (100 years, excludes biogenic CO ₂)	kg CO ₂ eq
ODP	Depletion of stratospheric ozone layer	kg CFC 11 eq
SFP	Smog formation potential	kg O ₃ eq

In addition to the environmental parameters described in the previous section, the following resource use and waste categories are also disclosed.

Table 9: Resource Use, Waste, and Output Flow Indicators

Abbreviation	Parameter	Unit
Resource Use Parameters		
RPR_E	Use of renewable primary energy excluding renewable primary energy resources used as raw materials	MJ, net calorific value (LHV)
RPR_M	Use of renewable primary energy resources used as raw materials	MJ, net calorific value
NRPR_E	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	MJ, net calorific value
NRPR_M	Use of non-renewable primary energy resources used as raw materials	MJ, net calorific value
SM	Use of secondary materials	kg
RSF	Use of renewable secondary fuels	MJ, net calorific value
NRSF	Use of non-renewable secondary fuels	MJ, net calorific value
RE	Recovered energy	MJ, net calorific value
FW	Net use of fresh water	m ³

Waste Parameters and Output Flows		
HWD	Disposed-of-hazardous waste	kg
NHWD	Disposed-of non-hazardous waste	kg
HLRW	High-level radioactive waste, conditioned, to final repository	kg
ILLRW	Intermediate- and low-level radioactive waste, conditioned, to final repository	kg
CRU	Components for reuse	kg
MR	Materials for recycling	kg
MER	Materials for energy recovery	kg
EEE	Exported electrical energy	MJ
EET	Exported thermal energy	MJ

In order to align with the PCR, which references ISO 21930:2007, primary energy consumption results also need to be reported for the higher heating value (HHV) / gross calorific value, as well as material resource consumption.

Table 10: Additional indicator results (ISO 21930:2007)

Parameter	Unit
Total Primary Energy Consumption	
Nonrenewable Fossil	MJ, gross calorific value (HHV)
Nonrenewable Nuclear	MJ, gross calorific value (HHV)
Renewable (Solar, Wind, Hydro, Geo)	MJ, gross calorific value (HHV)
Renewable (Biomass)	MJ, gross calorific value (HHV)

Material Resources Consumption

Nonrenewable Material Resources	kg
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Renewable Material Resources	kg
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3.1 RESULTS (ISO 21930:2017)

Table 11: LCIA results for SILCOR® 900 HA, per 1 m²

Impact Category	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part B	SILCOR® 900 HA - Part B	SILCOR® 900 HA - Part B	SILCOR® 900 HA - Part B
	A1	A2	A3	A1-A3	A1	A2	A3	A1-A3
IPCC AR5								
GWP [kg CO2 eq]	3.07E-01	4.87E-03	8.56E-02	3.97E-01	7.50E+00	2.44E-01	1.25E+00	8.99E+00
TRACI								
AP [kg SO2 eq]	3.33E-03	5.23E-06	4.97E-04	3.84E-03	1.44E-02	2.62E-04	4.48E-03	1.91E-02
EP [kg N eq]	3.95E-05	5.00E-07	5.50E-05	9.50E-05	2.02E-02	2.51E-05	3.20E-04	2.06E-02
GWP [kg CO2 eq]	2.86E-01	4.80E-03	8.37E-02	3.75E-01	7.31E+00	2.40E-01	1.22E+00	8.77E+00
ODP [kg CFC 11 eq]	6.36E-15	2.02E-17	3.08E-13	3.14E-13	6.57E-13	1.01E-15	4.53E-14	7.03E-13
SFP [kg O3 eq]	1.15E-02	1.04E-04	1.60E-02	2.77E-02	2.62E-01	5.22E-03	1.16E-01	3.83E-01
Resource Use Indicators								
RPRE [MJ]	2.07E-01	4.22E-03	4.89E-01	7.01E-01	4.91E+01	2.11E-01	1.40E+00	5.07E+01
RPRM [MJ]	0.00E+00	0.00E+00	3.55E-01	3.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPRE [MJ]	3.35E+00	6.42E-02	1.27E+00	4.69E+00	1.31E+02	3.21E+00	1.58E+01	1.50E+02
NRPRM [MJ]	1.54E+01	0.00E+00	4.92E-01	1.59E+01	2.35E+01	0.00E+00	3.59E+00	2.71E+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
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
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
RE [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
FW [m3]	6.31E-04	3.27E-06	4.28E-04	1.06E-03	2.95E-01	1.64E-04	1.57E-01	4.52E-01
Output Flows and Waste Categories								
HWD [kg]	1.79E-10	2.80E-13	3.68E-06	3.68E-06	3.29E-06	1.40E-11	2.31E-05	2.64E-05
NHWD [kg]	3.28E-03	1.04E-05	1.50E-03	4.79E-03	4.93E-01	5.23E-04	3.21E-02	5.26E-01
HLRW [kg]	5.54E-08	8.66E-11	4.55E-08	1.01E-07	3.50E-06	4.33E-09	2.73E-07	3.78E-06
ILLRW [kg]	5.18E-05	8.05E-08	4.92E-05	1.01E-04	3.78E-03	4.03E-06	2.83E-04	4.07E-03
CRU [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
MR [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
MER [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
EEE [MJ]	0.00E+00	0.00E+00	2.00E-05	2.00E-05	0.00E+00	0.00E+00	1.26E-04	1.26E-04
EET [MJ]	0.00E+00	0.00E+00	8.05E-06	8.05E-06	0.00E+00	0.00E+00	5.07E-05	5.07E-05

Table 12: LCIA results for SILCOR® 900 MP, per 1 m²

Impact Category	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part B	SILCOR® 900 MP - Part B	SILCOR® 900 MP - Part B	SILCOR® 900 MP - Part B
	A1	A2	A3	A1-A3	A1	A2	A3	A1-A3
IPCC AR5								
GWP [kg CO2 eq]	3.08E+00	6.66E-03	4.40E-01	3.52E+00	2.37E+00	3.22E-02	4.70E-01	2.87E+00
TRACI								
AP [kg SO2 eq]	4.13E-03	7.16E-06	1.77E-03	5.91E-03	5.61E-03	8.29E-05	2.03E-03	7.72E-03
EP [kg N eq]	3.88E-04	6.85E-07	1.26E-04	5.15E-04	1.86E-04	4.92E-06	1.47E-04	3.38E-04
GWP [kg CO2 eq]	2.97E+00	6.57E-03	4.30E-01	3.41E+00	2.28E+00	3.17E-02	4.60E-01	2.78E+00
ODP [kg CFC 11 eq]	8.61E-15	2.76E-17	1.02E-14	1.88E-14	5.47E-09	1.29E-16	1.16E-14	5.47E-09
SFP [kg O3 eq]	7.99E-02	1.43E-04	4.76E-02	1.28E-01	7.37E-02	1.65E-03	5.63E-02	1.32E-01
Resource Use Indicators								
RPRE [MJ]	1.99E+00	5.77E-03	3.30E-01	2.33E+00	1.70E+00	2.66E-02	3.77E-01	2.10E+00
RPRM [MJ]	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-01	0.00E+00	0.00E+00	1.96E-01
NRPRE [MJ]	5.39E+01	8.78E-02	5.48E+00	5.94E+01	4.05E+01	4.23E-01	5.94E+00	4.68E+01
NRPRM [MJ]	2.91E+01	0.00E+00	0.00E+00	2.91E+01	3.53E+01	0.00E+00	0.00E+00	3.53E+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
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
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
RE [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
FW [m3]	1.32E-02	4.47E-06	6.15E-02	7.47E-02	1.24E-02	2.07E-05	6.16E-02	7.41E-02
Output Flows and Waste Categories								
HWD [kg]	3.12E-08	3.83E-13	1.01E-05	1.01E-05	5.04E-06	1.84E-12	1.25E-05	1.76E-05
NHWD [kg]	1.83E-02	1.43E-05	1.20E-02	3.03E-02	1.79E-02	6.74E-05	1.23E-02	3.02E-02
HLRW [kg]	7.96E-07	1.18E-10	7.06E-08	8.66E-07	3.60E-07	5.63E-10	8.62E-08	4.47E-07
ILLRW [kg]	7.31E-04	1.10E-07	6.49E-05	7.96E-04	4.41E-04	5.28E-07	7.88E-05	5.21E-04
CRU [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
MR [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
MER [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
EEE [MJ]	0.00E+00	0.00E+00	5.50E-05	5.50E-05	0.00E+00	0.00E+00	6.80E-05	6.80E-05
EET [MJ]	0.00E+00	0.00E+00	2.22E-05	2.22E-05	0.00E+00	0.00E+00	2.74E-05	2.74E-05

3.2 ADDITIONAL RESULTS (ISO 21930:2007)

Table 13: Additional indicator results for SILCOR® 900 HA, per 1 m²

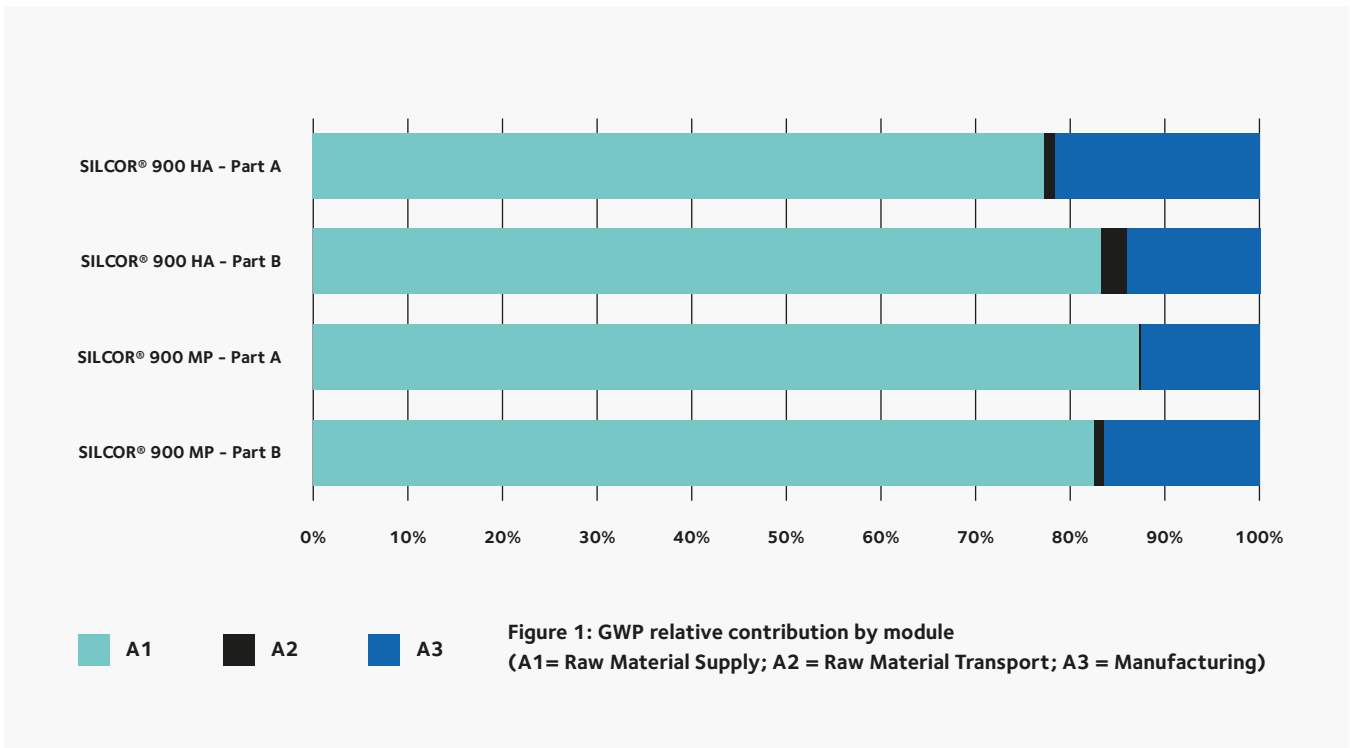
	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part A	SILCOR® 900 HA - Part B	SILCOR® 900 HA - Part B	SILCOR® 900 HA - Part B	SILCOR® 900 HA - Part B
	A1	A2	A3	A1-A3	A1	A2	A3	A1-A3
Total Primary Energy Consumption [MJ (HHV)]								
Nonrenewable Fossil	2.00E+01	6.86E-02	1.78E+00	2.19E+01	1.58E+02	3.44E+00	1.99E+01	1.81E+02
Nonrenewable Nuclear	1.32E-01	2.04E-04	1.25E-01	2.57E-01	9.56E+00	1.02E-02	8.90E-01	1.05E+01
Renewable (Solar, Wind, Hydro, Geo)	2.07E-01	4.22E-03	8.44E-01	1.06E+00	4.91E+01	2.11E-01	1.40E+00	5.07E+01
Renewable (Biomass)	-	-	-	-	-	-	-	-
Material Resources Consumption (kg)								
Nonrenewable Material Resources	2.75E-01	4.87E-04	8.08E-02	3.56E-01	1.62E+01	2.44E-02	2.91E+00	1.91E+01
Renewable Material Resources	4.14E-03	3.16E-03	6.90E-02	7.63E-02	2.34E+00	3.41E-02	4.09E-02	2.42E+00

Table 14: Additional indicator results for SILCOR® 900 MA, per 1 m²

	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part A	SILCOR® 900 MP - Part B	SILCOR® 900 MP - Part B	SILCOR® 900 MP - Part B	SILCOR® 900 MP - Part B
	A1	A2	A3	A1-A3	A1	A2	A3	A1-A3
Total Primary Energy Consumption [MJ (HHV)]								
Nonrenewable Fossil	8.86E+01	9.39E-02	5.59E+00	9.43E+01	8.10E+01	4.52E-01	6.04E+00	8.75E+01
Nonrenewable Nuclear	1.85E+00	2.79E-04	2.34E-01	2.09E+00	1.11E+00	1.34E-03	2.69E-01	1.38E+00
Renewable (Solar, Wind, Hydro, Geo)	1.99E+00	5.77E-03	3.30E-01	2.33E+00	1.89E+00	2.66E-02	3.76E-01	2.30E+00
Renewable (Biomass)	-	-	-	-	-	-	-	-
Material Resources Consumption (kg)								
Nonrenewable Material Resources	4.09E+00	6.66E-04	9.77E-01	5.07E+00	2.28E+00	3.12E-03	9.83E-01	3.27E+00
Renewable Material Resources	6.57E-02	8.46E-03	1.13E-02	8.54E-02	6.58E-02	1.17E-02	1.32E-02	9.07E-02

4 Life Cycle Assessment Interpretation

For the selected SILCOR® waterproofing systems, the primary contributors to the cradle-to-gate GWP impacts are the raw materials found in module A1. A3, which encompasses manufacturing and packaging, is the second largest contributor to GWP.



5

Life Cycle Assessment Interpretation

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3. ISO 14044: 2006/ Amd 1:2017 Environmental Management – Life cycle assessment – Requirements and Guidelines – Amendment 1.
4. ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and Procedures.
5. ISO 21930:2007 Sustainability in buildings and civil engineering works – Core rules for environmental product declarations of construction products and services.
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