SIKA RESINOUS & CEMENTITIOUS FLOORING SYSTEMS

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ENVIRONMENTAL PRODUCT DECLARATION

Included floor coating systems

Sika ComfortFloor®
Sika ComfortFloor® Pro
Sikafloor® DecoFlake® System
Sikafloor® ESD Control System
Sikafloor® Fastflor® CR
Sikafloor® Morritex
Sikafloor® NA PurCem®
Sikafloor® Quartzite® System
Sikafloor® Resoclad MRW Type II
Sikafloor® Smooth Epoxy
Sikafloor® Terrazzo
Sikafloor®-52 PC Grey
Sikafloor®-53 PC White
Sikalastic®-3900 Traffic Coating System

The development of this environmental product declaration (EPD) for resinous and cementitious floor coating systems manufactured in Canada was commissioned by Sika Canada. This EPD was developed in compliance with CAN/CSA-ISO 14025 and ISO 21930 by Groupe AGÉCO and has been verified by Athena Sustainable Materials Institute.

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 Canada, please go to www.sika.ca

Issue date: July 10, 2019

Environmental Product Declaration
CSA Group Registered Based on ISO 14025 and Other Requirements
For more information visit csaregistries.ca/epd
#2068-2738
July 2019 - 2024

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	**CSA Group** 178 Rexdale Blvd, Toronto, ON, Canada M9W 1R3 | www.csagroup.org
Product	Sika resinous and cementitious flooring systems
EPD registration number	2068-2738
EPD recipient organization	**Sika Canada** 601 Delmar Ave., Pointe-Claire (Quebec) H9R 4A9 | www.sika.ca
Reference PCR	PCR for Resinous Floor Coatings NSF International | Valid until December 17, 2023
Date of issue (approval)	July 10, 2019
Period of validity	July 10, 2019 – July 09, 2024

The PCR review was conducted by	Thomas P. Gloria, Ph. D. | Mr. Bill Sthough | Mr. Jack Geibig
The LCA and EPD were prepared by	**Groupe AGÉCO** | www.groupeageco.ca | ageco@groupeageco.ca
This EPD and related data were independently verified by an external verifier, Lindita Bushi, according to CAN/CSA-ISO 14025:2006 and ISO 21930:2017.	__ Internal x **External** Lindita Bushi Lindita Bushi, Ph.D. Athena Sustainable Materials Institute 280 Albert St., Suite 404, Ottawa, Ontario, Canada K1P 5G8 lindita.bushi@athenasmi.org | www.athenasmi.org

Functional unit	1 m² of covered and protected flooring surface for a period of 60 years
Market and technical lifetimes	Market: 5 to 30 years | Technical: 5 to 60 years
Content of the products	See section 2 for complete description
Data quality assessment score	Good
Manufacturing locations	Pointe-Claire, Quebec, Canada Edmonton, Alberta, Canada Surrey, Bristish Columbia, Canada

Environmental Product Declaration Summary Sheet

Sika Canada | Sika Resinous & Cementitious Flooring Systems

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

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EPD commissioner and owner	Period of validity	Program operator and registration number	Product Category Rule	LCA and EPD consultants
Sika Canada	July 10, 2019 – July 09, 2024	CSA Group 2068-2738	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 Canada 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 version (v4), 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 made of individual cementitious and resinous coatings. Cementitious components are sold as powders.

Functional unit

One square meter (1 m^2) of covered and protected flooring surface for a period of 60 years.

Scope and system boundary

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

Systems included in the EPD

Sika ComfortFloor® • Sika ComfortFloor® Pro
Sikafloor® DecoFlake® System
Sikafloor® ESD Control System
Sikafloor® Fastflor® CR • Sikafloor® NA PurCem®
Sikafloor® Resoclad MRW Type II
Sikafloor® Smooth Epoxy Coating System
Sikafloor® Terrazzo • Sikafloor® Morritex
Sikafloor® Quartzite® System • Sikafloor®-52 PC Grey
Sikafloor®-53 PC White
Sikalastic®-3900 Traffic Coating System

CSA GROUP

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®	Commercial	Market	20	2.33E+1	1.12E-1	6.30E-2	1.45E+0	8.35E-7
	Commercial	Technical	30	2.27E+1	1.08E-1	6.09E-2	1.39E+0	7.80E-7
	Industrial	Market	10	2.52E+1	1.24E-1	6.91E-2	1.63E+0	1.00E-6
	Industrial	Technical	15	2.39E+1	1.16E-1	6.50E-2	1.51E+0	8.91E-7
Sika ComfortFloor® Pro	Commercial	Market	30	4.71E+1	2.33E-1	1.09E-1	3.10E+0	1.31E-6
	Industrial	Technical						
	Commercial	Technical	60	4.65E+1	2.29E-1	1.07E-1	3.04E+0	1.26E-6
	Industrial	Market	20	4.77E+1	2.36E-1	1.11E-1	3.16E+0	1.37E-6
Sikafloor® Decoflake® System	Commercial	Market	20	1.96E+1	9.72E-2	6.17E-2	1.46E+0	2.01E-6
	Commercial	Technical	30	1.73E+1	8.73E-2	5.35E-2	1.29E+0	1.68E-6
	Industrial	Market	10	2.64E+1	1.27E-1	8.64E-2	1.96E+0	2.98E-6
	Industrial	Technical	15	2.19E+1	1.07E-1	6.99E-2	1.63E+0	2.33E-6
Sikafloor® ESD Control System	Commercial	Market	10	3.24E+1	1.63E-1	1.28E-1	2.50E+0	4.04E-6
	Commercial	Technical	15	2.20E+1	1.11E-1	8.83E-2	1.69E+0	2.71E-6
	Industrial	Market and Technical	5	6.37E+1	3.19E-1	2.48E-1	4.94E+0	8.01E-6
Sikafloor® Fastflor® CR Broadcast	Commercial	Market	20	1.40E+1	7.25E-2	5.70E-2	9.05E-1	1.85E-6
	Commercial	Technical	30	1.24E+1	6.40E-2	5.06E-2	8.01E-1	1.62E-6
	Industrial	Market	10	1.90E+1	9.78E-2	7.63E-2	1.22E+0	2.53E-6
	Industrial	Technical	15	1.57E+1	8.09E-2	6.35E-2	1.01E+0	2.08E-6
Sikafloor® Fastflor® CR Smooth	Commercial	Market	10	1.79E+1	9.14E-2	7.34E-2	1.10E+0	2.35E-6
	Commercial	Technical	15	1.28E+1	6.54E-2	5.36E-2	7.85E-1	1.65E-6
	Industrial	Market and Technical	5	3.33E+1	1.69E-1	1.33E-1	2.06E+0	4.45E-6
Sikafloor® Morritex® trowelled	Commercial	Market	30	1.49E+1	7.61E-2	5.37E-2	1.35E+0	2.09E-6
	Industrial	Technical						
	Commercial	Technical	60	1.28E+1	6.46E-2	4.59E-2	1.15E+0	1.79E-6
	Industrial	Market	20	1.70E+1	8.75E-2	6.15E-2	1.55E+0	2.39E-6

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.

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

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.
Sikafloor® Morritex® smooth and broadcast	Commercial	Market	20	2.90E+1	1.58E-1	1.08E-1	2.75E+0	4.05E-6
	Commercial	Technical	30	2.21E+1	1.21E-1	8.31E-2	2.10E+0	3.09E-6
	Industrial	Market	10	4.95E+1	2.69E-1	1.82E-1	4.68E+0	6.95E-6
	Industrial	Technical	15	3.58E+1	1.95E-1	1.33E-1	3.39E+0	5.02E-6
Sikafloor® NA PurCem®	Industrial	Market	20	1.78E+1	8.94E-2	3.23E-2	1.42E+0	1.48E-6
	Industrial	Technical	30	1.71E+1	8.52E-2	3.07E-2	1.36E+0	1.40E-6
Sikafloor® Quartzite® System HDB and trowelled	Commercial	Market	30	1.64E+1	7.82E-2	5.93E-2	1.41E+0	2.29E-6
	Industrial	Technical						
	Commercial	Technical	60	1.42E+1	6.84E-2	5.11E-2	1.22E+0	1.98E-6
	Industrial	Market	20	1.87E+1	8.80E-2	6.75E-2	1.59E+0	2.61E-6
Sikafloor® Quartzite® System Broadcast	Commercial	Market	20	1.61E+1	7.47E-2	6.01E-2	1.23E+0	2.27E-6
	Commercial	Technical	30	1.38E+1	6.49E-2	5.19E-2	1.05E+0	1.96E-6
	Industrial	Market	10	2.28E+1	1.04E-1	8.46E-2	1.79E+0	3.22E-6
	Industrial	Technical	15	1.83E+1	8.44E-2	6.83E-2	1.42E+0	2.59E-6
Sikafloor® Resoclad MRW Type II	Commercial	Market	20	8.95E+0	4.22E-2	3.32E-2	9.06E-1	7.37E-7
	Commercial	Technical	30	7.37E+0	3.47E-2	2.65E-2	6.89E-1	5.68E-7
	Industrial	Market	10	1.37E+1	6.49E-2	5.33E-2	1.56E+0	1.25E-6
	Industrial	Technical	15	1.05E+1	4.98E-2	3.99E-2	1.12E+0	9.07E-7
Sikafloor® Smooth Epoxy	Commercial	Market	10	1.54E+1	8.21E-2	6.02E-2	1.40E+0	2.06E-6
	Commercial	Technical	15	1.13E+1	6.03E-2	4.55E-2	1.02E+0	1.49E-6
	Industrial	Market and Technical	5	2.75E+1	1.48E-1	1.04E-1	2.55E+0	3.77E-6
Sikafloor® Terrazzo	Commercial	Market	30	2.90E+1	1.54E-1	1.19E-1	2.69E+0	3.68E-6
	Commercial	Technical	60	2.85E+1	1.51E-1	1.17E-1	2.58E+0	3.63E-6
Sikafloor®-52 PC Grey	Commercial	Market	30	2.75E+1	1.16E-1	5.85E-2	2.33E+0	3.16E-6
	Industrial	Technical						
	Commercial	Technical	60	2.08E+1	8.84E-2	4.57E-2	1.74E+0	2.35E-6
	Industrial	Market	20	3.43E+1	1.45E-1	7.12E-2	2.92E+0	3.96E-6
Sikafloor®-53 PC White	Commercial	Market	30	3.03E+1	1.36E-1	6.33E-2	2.77E+0	3.67E-6
	Industrial	Technical						
	Commercial	Technical	60	2.28E+1	1.03E-1	4.93E-2	2.07E+0	2.74E-6
	Industrial	Market	20	3.77E+1	1.69E-1	7.72E-2	3.47E+0	4.60E-6
Sikalastic®-3900 Traffic Coating System	Commercial	Market	10	3.21E+1	1.56E-1	9.27E-2	2.36E+0	2.83E-6
	Commercial	Technical	15	2.31E+1	1.12E-1	6.75E-2	1.68E+0	2.01E-6

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 was not derived from the LCA.

Sika's Commitment to sustainability

Providing long lasting and high-performance solutions to the benefit of our customers, Sika is committed to pioneering sustainable solutions that are safer, have the lowest impact on resources and address global environmental challenges. Therefore, Sika assumes the responsibility to provide sustainable solutions in order to improve material, water and energy efficiency in construction and transportation. Sika strives to create more value for all its stakeholders with its products, systems and solutions along the whole value chain and throughout the entire life span of its products. 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.

VOC content

Individual coating products in this EPD contain between 0 and 200 grams of VOC per litre. The VOC content was measured according to EPA 24 or ASTM D2369 standard methods. All products were compliant with the Canadian "Volatile Organic Compound (VOC) Concentration Limits for Architectural Coatings Regulations" at the time of the study. Sika Canada discloses the VOC content of its products.

Waste packaging management

Sika Canada 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 their material (paper, plastic and metal). Ask information to local municipalities about recycling programs for industrial coating packaging.

For more information: www.sika.ca

1. Description of Sika Canada

Sika Canada Inc., a member of the Sika Group, is a leader in the field of specialty chemicals for construction. Sika's product portfolio encompasses a vast range of construction solutions, "From Foundations Upwards", including waterproofing solutions, concrete production (ready mix and precast), concrete repair and protection, joint sealing, elastic & structural bonding, specialized flooring including industrial, commercial, institutional & decorative systems and roofing systems. This extensive range of products enables tailor-made solutions, in new construction as well as refurbishment. Beyond the quality and performance of its products, Sika has earned its reputation by offering an unparalleled level of expertise and support, from conception to completion.

2. Description of product

2.1. Definition and product classification

This EPD developed with the Product Category Rules (PCR) for Resinous Floor Coatings from NSF covers 14 floor coating systems comprising resinous and cementitious products. Resinous systems include epoxy, polyurethane, polyurethane aliphatic, and urethane acrylic-type systems made of individual coatings (i.e. primer, basecoat and topcoat) 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, basecoat and topcoat). Cementitious components are sold as powders that are then mixed with water or a polymer during installation.

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

System	Components	Role
Sika ComfortFloor®	Sikafloor®-156^{CA}	Primer
	Sikafloor®-330	Base coat
	Sikafloor®-304 W NA/Sikafloor®-305 W NA	Top coat
Sika ComfortFloor® Pro	Sikafloor® Comfort Adhesive	Mat adhesive
	Sikafloor® Comfort Regupol-6015H	Recycled rubber mat
	Sikafloor® Comfort Porefiller	Mat pore filler
	Sikafloor®-330	Base coat
	Sikafloor®-304 W NA/Sikafloor®-305 W NA	Top coat

System	Components	Role
Sikafloor® DecoFlake®	Sikafloor®-261^{CA}/Sikafloor®-1610 (if high humidity)	Primer
	Quartz aggregate	Aggregate
	Sikafloor®-261^{CA}	Base Coat
	Sikafloor® DecoFlake®	Color flakes
	Sikafloor®-2002	Top coat
Sikafloor® ESD Control	Sikafloor®-156^{CA}/Sikafloor®-1610 (if high humidity)	Primer
	Sikafloor®-222 W ESD	Base Coat
	Sikafloor®-260 ESD/Sikafloor®-270 ESD	Top Coat
Sikafloor® Fastflor® CR	Sikafloor® Fastflor® CR	Primer
	Quartz aggregate	Aggregate
	Sikafloor® Fastflor® CR	Base Coat
Sikafloor® Morritex	Sikafloor®-156^{CA}	Primer
	Sikafloor®-156^{CA}	Screed mortar
	Sikafloor® Aggregate PT	Screed mortar
	Sikafloor®-261^{CA}	Base Coat
	Sikafloor®-261^{CA}	Grout Coat
	Sikafloor®-261^{CA}	Top Coat
Sikafloor® PurCem®	Sikafloor®-22 NA PurCem®	Broadcast body coat
	Sand	Broadcast body coat
	Sikafloor®-31 NA PurCem®/Sikafloor®-33 NA PurCem®	Top coat
Sikafloor® Quartzite®	Sikafloor®-156^{CA}/Sikafloor® Duochem-9205	Primer
	Sikafloor®-156^{CA}/Sikafloor® Duochem-9205	Screed mortar
	Sikafloor® Aggregate PT	Screed mortar
	Sikafloor® Trowel/Broadcast Quartz Aggregate	Screed mortar
	Sikafloor® Duochem-9200	Grout coat
	Sikafloor®-2002/Sikafloor®-217	Top coat
Sikafloor® Resoclad MRW Type II	Sikalastic®-390 Membrane	Base coat
	Sikafloor® Duochem-6001	Top coat
Sikafloor® Smooth Epoxy	Sikafloor®-261^{CA} /Sikafloor®-1610 (if high humidity)	Primer
	Sikafloor®-261^{CA}	Top Coat
Sikafloor® Terrazzo	Sikafloor® Terrazzo	Screed mortar
	Sikafloor® Duochem-305	Top Coat
Sikafloor®-52 PC Grey	Sikafloor®-156^{CA}/Sikafloor®-1610 (if high humidity)	Primer
	Sikafloor®-52 PC Grey	Base coat
	Scofield® Formula One™ Lithium Densifier MP	Additive
	Scofield® Formula One™ Guard-W	Additive
	Scofield® Formula One™ Liquid Dye	Additive
Sikafloor®-53 PC White	Sikafloor®-156^{CA}/Sikafloor®-1610 (if high humidity)	Primer
	Sikafloor®-53 PC White	Base coat
	Scofield® Formula One™ Lithium Densifier MP	Additive
	Scofield® Formula One™ Guard-W	Additive
	Scofield® Formula One™ Liquid Dye	Additive
Sikalastic®-3900 Traffic	Sika® MT Primer/Sikalastic®-120 FS Primer	Primer
	Sikalastic®-390 Membrane	Base coat
	Sikalastic®-391 N/Sikalastic®-220 FS	Top coat

More information on these systems is available on Sika Canada's website:
https://can.sika.com/en/solutions-and-products.html

2.2. Material content

The material composition of each component 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.

Table 2: Composition of components as disclosed in SDS

Components	Ingredients[1]	CAS No.	Concentration (%w/w)
Quartz aggregate	No SDS available for this product		
Scofield® Formula One™ Lithium Densifier MP	Silicic acid, lithium salt	12627-14-4	>= 10 - <= 30
Scofield® Formula One™ Liquid Dye Concentrate	Propylene carbonate	108-32-7	>= 80 - <= 100
Scofield® Formula One™ Guard-W	Siloxanes and Silicones, di-Me, methoxy Ph, polymers with Ph silsesquioxanes, methoxy-terminated	68957-04-0	>= 1 - < 2
	Silicic acid, lithium salt	12627-14-4	>= 1 - < 2
Sika® MT Primer	(Part A) Quartz (SiO2)	14808-60-7	>= 40 - < 50
	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 30 - < 40
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 10 - < 20
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 2 - < 5
	(Part A) Quartz (SiO2) <5µm	14808-60-7	>= 0 - < 1
	(Part B) Benzyl alcohol	100-51-6	>= 40 - < 50
	(Part B) Isophoronediamine	2855-13-2	>= 10 - < 20
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 10 - < 20
	(Part B) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 10 - < 20
	(Part B) ethanol	64-17-5	>= 5 - < 10
	(Part B) Phenol, 4-dodecyl-, branched	210555-94-5	>= 2 - < 5
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 2 - < 5
Sikafloor® Aggregate PT	Quartz (SiO2)	14808-60-7	>= 90 – <= 100
	Dibutylphtalate	84-74-2	>= 0.1 - < 1
Sikafloor® Comfort Adhesive	(Part A) Quartz (SiO2)	14808-60-7	>= 0 - < 1
	(Part B) Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	>= 50 - < 60
	(Part B) 4,4'-methylenediphenyl diisocyanate	101-68-8	>= 40 - < 50
	(Part B) o-(p-isocyanatobenzyl)phenyl isocyanate (MDI)	5873-54-1	>= 5 - < 10
Sikafloor® Comfort Porefiller	Alkane, C14-17-, chloro-	85535-85-9	>= 10 - < 20
	Quartz (SiO2)	14808-60-7	>= 5 - < 10
	2-ethylhexane-1,3-diol	94-96-2	>= 1 - < 2
	Quartz (SiO2) <5µm	14808-60-7	>= 0 - < 1
Sikafloor® Comfort Regupol-6015H	No SDS available for this product		

[1] 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.

Components	Ingredients[1]	CAS No.	Concentration (%w/w)
Sikafloor® DecoFlake®	No SDS available for this product		
Sikafloor® Duochem-305	1-methyl-2-pyrrolidone	872-50-4	>= 5 - < 10
	triethylamine	121-44-8	>= 0 - < 1
Sikafloor® Duochem-6001	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 10 - < 20
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 1 - < 2
	(Part B) Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines	68410-23-1	>= 20 - < 30
	(Part B) Benzyl alcohol	100-51-6	>= 10 - < 20
	(Part B) 1-methoxy-2-propanol	107-98-2	>= 10 - < 20
	(Part B) Acetic acid	64-19-7	>= 2 - < 5
	(Part B) triethylenetetramine	112-24-3	>= 2 - < 5
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 1 - < 2
Sikafloor® Duochem-9200	bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 90 - <= 100
	oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 2 - < 5
Sikafloor® Duochem-9205	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 90 - <= 100
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 2 - < 5
	(Part B) Isophoronediamine	2855-13-2	>= 40 - < 50
	(Part B) Benzyl alcohol	100-51-6	>= 40 - < 50
	(Part B) Phenol, 4-nonyl-, branched	84852-15-3	>= 10 - < 20
	(Part B) Salicylic acid	69-72-7	>= 1 - < 2
Sikafloor® Fastflor® CR	bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 85 - <= 90
	2,3-epoxypropyl o-tolyl ether	2210-79-9	>= 5 - < 10
	(R)-p-mentha-1,8-diene	5989-27-5	>= 0 - < 1
Sikafloor® Terrazzo	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 50 - <= 60
	(Part A) Dibutylphthalate	84-74-2	>= 2 - < 5
	(Part A) 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	17557-23-2	>= 2 - < 5
	(Part A) Trimethylopropane triglycidylether	30499-70-8	>= 0 - < 1
	(Part A) Quartz (SiO2) <5µm	14808-60-7	>= 0 - < 1
	(Part B) Benzyl alcohol	100-51-6	>= 40 - < 50
	(Part B) Isophoronediamine	2855-13-2	>= 30 - < 40
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 5 - < 10
	(Part B) 2,2'-iminodiethylamine	111-40-0	>= 1 - < 2
Sikafloor® Trowel Quartz Aggregate	Quartz (SiO2) <5µm	14808-60-7	>= 90 - <= 100

Components	Ingredients[1]	CAS No.	Concentration (%w/w)
Sikafloor®-156CA	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 70 - <= 80
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 5 - < 10
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 2 - < 5
	(Part A) Benzyl alcohol	100-51-6	>= 2 - < 5
	(Part A) (R)-p-mentha-1,8-diene	5989-27-5	>= 0 - < 1
	(Part B) Benzyl alcohol	100-51-6	>= 40 - < 50
	(Part B) Isophoronediamine	2855-13-2	>= 10 - < 20
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 10 - < 20
	(Part B) 3,6,9-triazaundecamethylenediamine	112-57-2	>= 10 - < 20
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 5 - < 10
	(Part B) Trimethylhexamethylenediamine-1,6 cyanethylated	93941-62-9	>= 2 - < 5
	(Part B) Trimethylhexamethylenediamine	25620-58-0	>= 1 - < 2
Sikafloor®-1610	Quartz (SiO2)	14808-60-7	>= 40 - < 50
	bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 30 - < 40
	bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 10 - < 20
	oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 2 - < 5
	Quartz (SiO2) <5µm	14808-60-7	>= 0 - < 1
Sikafloor®-2002	bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 90 - <= 95
	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	17557-23-2	>= 5 - < 10
	[[(2-ethylhexyl)oxy]methyl]oxirane (2-ethylhexyl glycidyl ether)	2461-15-6	>= 2 - < 5
Sikafloor®-217	bisphenol-A-(epichlorhydrin) epoxy resin (Part A)	25068-38-6	>= 60 - < 80
	bisphenol-F-(epichlorhydrin) epoxy resin (Part A)	28064-14-4	>= 10 - < 20
	oxirane, mono[(C12-14-alkyloxy)methyl]derivatives (Part A)	68609-97-2	>= 5 - < 10
	Benzyl alcohol (Part A)	100-51-6	>= 2 - < 5
	ethyl 4-[[(methylphenylamino)methylene]amino]benzoate (Part A)	57834-33-0	>= 2 - < 5
	Benzyl alcohol (Part B)	100-51-6	>= 30 - < 60
	Isophoronediamine (Part B)	2855-13-2	>= 10 - < 30
	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine (Part B)	25513-64-8	>= 10 - < 30
	Phenol, 4-dodecyl-, branched (Part B)	210555-94-5	>= 5 - < 10
Sikafloor®-22 NA PurCem®	(Part A) butane-1,4-diol	110-63-4	>= 2 - < 5
	(Part B) 4,4'-methylenediphenyl diisocyanate	101-68-8	>= 40 - < 50
	(Part B) Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	>= 40 - < 50
	(Part B) o-(p-isocyanatobenzyl)phenyl isocyanate (MDI)	5873-54-1	>= 10 - < 25
	(Part C) Quartz (SiO2)	14808-60-7	>= 15 - < 40
	(Part C) Quartz (SiO2) <5µm	14808-60-7	>= 15 - < 40
	(Part C) Portland cement	65997-15-1	>= 15 - < 40

Components	Ingredients[1]	CAS No.	Concentration (%w/w)
Sikafloor®-222 W ESD	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 40 - < 50
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 10 - < 20
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 2 - < 5
	(Part B) 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine	90530-15-7	>= 2 - < 5
	(Part B) Isophoronediamine	2855-13-2	>= 0 - < 1
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 0 - < 1
Sikafloor®-260 ESD	(Part A) Quartz (SiO2)	14808-60-7	>= 30 – <= 60
	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 30 – <= 60
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 5 - < 10
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 1 - < 5
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	9003-36-5	>= 1 - < 5
	(Part A) p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	>= 1 - < 5
	(Part A) Quartz (SiO2) <5µm	14808-60-7	>= 0.1 - < 1
	(Part B) Benzyl alcohol	100-51-6	>= 10 - < 30
	(Part B) Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates	68308-64-5	>= 10 - < 30
	(Part B) Isophoronediamine	2855-13-2	>= 10 - < 30
	(Part B) 2-propenenitrile, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	90530-20-4	>= 10 - < 30
	(Part B) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 5 - < 10
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 5 - < 10
	(Part B) Phenol, 4-nonyl-, branched	84852-15-3	>= 1 - < 5
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 1 - < 5
	(Part B) 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8	>= 1 - < 5
Sikafloor®-261CA	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 30 - < 40
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 2 - < 5
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 2 - < 5
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	9003-36-5	>= 1 - < 2
	(Part A) p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	>= 1 - < 2
	(Part B) Benzyl alcohol	100-51-6	>= 40 - < 50
	(Part B) Isophoronediamine	2855-13-2	>= 10 - < 20
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 10 - < 20
	(Part B) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 10 - < 20
	(Part B) ethanol	64-17-5	>= 5 - < 10
	(Part B) Phenol, 4-nonyl-, branched	84852-15-3	>= 5 - < 10
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 2 - < 5
	(Part B) 2-propenenitrile, reaction products with 2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine (TMD cyanethylated)	90530-20-4	>= 1 - < 2
	(Part B) 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8	>= 0 - < 1

Components	Ingredients[1]	CAS No.	Concentration (%w/w)
Sikafloor®-270 ESD	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 50 - < 60
	(Part A) Quartz (SiO2)	14808-60-7	>= 5 - < 10
	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 2 - < 5
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	9003-36-5	>= 0 - < 1
	(Part A) p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	>= 0 - < 1
	(Part B) Benzyl alcohol	100-51-6	>= 40 - < 50
	(Part B) Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	>= 25 - < 35
	(Part B) Aliphatic Amines	Not Assigned	>= 5 - < 10
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 2 - < 5
	(Part B) cyclohex-1,2-ylenediamine	694-83-7	>= 2 - < 5
	(Part B) 4,4'-methylenebis(cyclohexylamine)	1761-71-3	>= 2 - < 5
Sikafloor®-304 W NA/Sikafloor®-305 W NA	(Part B) Aliphatic polyisocyanate	28182-81-2	>= 90 - <= 100
	(Part B) polyethyleneglycol tridecyl ether phosphate (Average EO = 3 - 10 mol)	9046-01-9	>= 2 - < 5
	(Part B) N,N-dimethylcyclohexanamine	98-94-2	>= 1 - < 2
	(Part B) hexamethylene-di-isocyanate	822-06-0	>= 0 - < 1
Sikafloor®-31 NA PurCem®	(Part A) butane-1,4-diol	110-63-4	>= 1 - < 5
	(Part B) Formaldehyde, oligomeric reaction products with aniline and phosgene	32055-14-4	>= 90 - <= 100
	(Part C) Portland cement	65997-15-1	>= 50 - < 100
	(Part C) Quartz (SiO2) <5µm	14808-60-7	>= 0.1 - < 1
Sikafloor®-33 NA PurCem®	(Part A) butane-1,4-diol	110-63-4	>= 2 - < 5
	(Part B) Aliphatic polyisocyanate	28182-81-2	>= 90 - <= 100
	(Part B) bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	>= 0 - < 1
	(Part B) hexamethylene-di-isocyanate	822-06-0	>= 0 - < 1
	(Part B) methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	>= 0 - < 1
	(Part C) Quartz (SiO2)	14808-60-7	>= 40 - < 50
	(Part C) Calcium hydroxide	1305-62-0	>= 20 - < 25
	(Part C) Quartz (SiO2) <5µm	14808-60-7	>= 10 - < 20
Sikafloor®-330	(Part A) 2-ethylhexane-1,3-diol	94-96-2	>= 1 - < 2
	(Part B) 4,4'-methylenediphenyl diisocyanate	101-68-8	>= 50 - < 60
	(Part B) Aromatic isocyanate-prepolymer	9048-57-1	>= 40 - < 50
Sikafloor®-52 PC Grey	Portland cement	65997-15-1	>= 10 - < 20
	Quartz (SiO2)	14808-60-7	>= 10 - < 20
	Quartz (SiO2) <5µm	14808-60-7	>= 0.1 - < 1
Sikafloor®-53 PC White	Quartz (SiO2)	14808-60-7	>= 25 - < 50
	Portland cement	65997-15-1	>= 20 - < 25
	Quartz (SiO2) <5µm	14808-60-7	>= 2 - < 5

Components	Ingredients[1]	CAS No.	Concentration (%w/w)
Sikalastic®-120 FS Primer	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 55 - <= 65
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	28064-14-4	>= 10 - < 20
	(Part A) oxirane, mono[(C12-14-alkyloxy)methyl]derivatives	68609-97-2	>= 10 - < 20
	(Part B) Benzyl alcohol	100-51-6	>= 40 - < 50
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 10 - < 20
	(Part B) 2-piperazin-1-ylethylamine	140-31-8	>= 10 - < 20
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 5- < 10
	(Part B) 4,4'-isopropylidenediphenol	80-05-7	>= 5- < 10
	(Part B) Phenol, 4-nonyl-, branched	84852-15-3	>= 3- < 5
	(Part B) Salicylic acid	69-72-7	>= 3- < 5
	(Part B) Isophoronediamine	2855-13-2	>= 2- < 3
	(Part B) Benzyldimethylamine	103-83-3	>= 1 - < 2
	(Part B) bis[(dimethylamino)methyl]phenol	71074-89-0	>= 1 - < 2
Sikalastic®-220 FS	(Part A) bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 80 - <= 90
	(Part A) solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 5 - < 10
	(Part A) bisphenol-F-(epichlorhydrin) epoxy resin	9003-36-5	>= 1 - < 2
	(Part A) p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	>= 1 - < 2
	(Part A) naphthalene	91-20-3	>= 0 - < 1
	(Part B) Phenol, 4-nonyl-, branched	84852-15-3	>= 50 - < 60
	(Part B) Benzyl alcohol	100-51-6	>= 10 - < 20
	(Part B) m-phenylenebis(methylamine)	1477-55-0	>= 5 - < 10
	(Part B) 1,5-Diamino-2-methylpentane	15520-10-2	>= 5 - < 10
	(Part B) Polyoxypropylenediamine (polymer)	9046-10-0	>= 5 - < 10
	(Part B) 2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 3- < 5
	(Part B) 4-tert-Butylphenol	98-54-4	>= 3- < 5
	(Part B) Trimethylhexamethylenediamine	25620-58-0	>= 0.1 - < 1
Sikalastic®-390 Membrane	ethylbenzene	100-41-4	>= 0 - < 1
Sikalastic®-391 N	4,4'-methylenediphenyl diisocyanate	101-68-8	>= 40 - < 50
	Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	>= 35 - < 45
	o-(p-isocyanatobenzyl)phenyl isocyanate (MDI)	5873-54-1	>= 20 - < 25

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 Table 3. 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. Then, these values may differ depending on the application, whether it is commercial or industrial.

Table 3: Estimated service life in years

System	Variant	Coating type	For commercial application†		For industrial application††	
			Market service life	Technical service life	Market service life	Technical service life
Sika ComfortFloor®		SLBS	20	30	10	15
Sika ComfortFloor® Pro		MMMT**	30	60	20	30
Sikafloor® Decoflake®		SLBS	20	30	10	15
Sikafloor® ESD Control System		TM	10	15	5	5
Sikafloor® Fastflor® CR	Broadcast*	SLBS	20	30	10	15
	Smooth	TM	10	15	5	5
Sikafloor® Morritex	Smooth and Broadcast*	SLBS	20	30	10	15
	Trowel*	MMMT	30	60	20	30
Sikafloor® NA PurCem®		MMMT	-	-	20	30
Sikafloor® Quartzite®	Broadcast*	SLBS	20	30	10	15
	Trowel and HDB*	MMMT	30	60	20	30
Sikafloor® Resoclad MRW Type II		SLBS	20	30	10	15
Sikafloor® Terrazzo		MMMT	30	60	-	-
Sikafloor®-52 PC Grey		MMMT	30	60	20	30
Sikafloor®-53 PC White		MMMT	30	60	20	30
Sikalastic®-3900 Traffic Coating System		TM	10	15	-	-
Sikafloor® Smooth Epoxy Coating Systems		TM	10	15	5	5

Legend

TM: Thin-mil floor coating

SLBS: Self-levelling or boardcast slurry floor coating

MMMT: Mortar/monolithic mortar/terrazzo floor coating

- : not applicable

** In broadcast systems (incl. self-levelling), aggregates are broadcast on a wet binder coat, while in trowel systems, aggregates are premixed with the binder (screed mortar) and applied with a trowel. A heavy-duty broadcast (HDB) system is composed of a screed mortar layer and broadcast layers. Trowel and HDB systems last longer than broadcast systems.*

*** The Sika ComfortFloor® Pro system was classified as a MMMT type coating system according to its thickness, although it is not made of mortar.*

†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 Table 4 and described in this section. All modules required by the PCR for resinous floor coatings from NSF were included. Figure 2 on page 19 shows the cradle-to-grave processes for resinous and cementitious floor coating systems included in this EPD.

Table 4: Life cycle stages included or not considered 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	Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	MND

Legend:

X: considered in the system boundaries *MND: Module not declared*

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 Canada, United States, Europe, South America, Asia and Australia. 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 the Sika's manufacturing plants by truck, and boat if shipped from oversees. This module includes the transport air emissions as well as fuel, vehicle, 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 under 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 under 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 Quebec and British Columbia, the electricity grid mix is mainly composed of hydroelectricity. 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 Table 5.

Table 5: Packaging description

Packaging type	End-of-life treament	Mass (in kg)	Source	Biogenic carbon content** (kg C)
Paper bag (contains 25 kg)	Landfill	0.10	Estimated	0.05
Paper bag (contains 25 kg)	Landfill	0.11	Estimated	0.055
Cardboard box (contains 4 x 4 l)	Landfill	0.42	Estimated	0.21
Metallic can (3.78 l)	Landfill*	0.43	Estimated	0
PE canister (4 l)	Landfill	0.5	Estimated	0
PE pail (10 l)	Landfill	1.0	Manufacturer	0
PE pail (20 l)	Landfill	1.5	Manufacturer	0
PE pail (5 l)	Landfill	0.5	Manufacturer	0
Metallic pail (12 l)	Landfill*	0.77	Manufacturer	0
Metallic pail (15 l)	Landfill*	0.88	Manufacturer	0
Metallic pail (21 l)	Landfill*	1.13	Manufacturer	0
Metallic pail (7.56 l)	Landfill*	0.59	Estimated	0
PE sleeve	Landfill	0.13	Estimated	0

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

*** 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, vehicle, and infrastructure production. The default PCR transportation modes and distances were used.

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 small amount of product is not used and becomes waste. The production of this waste amount (modules A1 to A4) is included in this module, but not its disposal, in conformance with the PCR for resinous floor coatings. The disposal of product packaging is included in this module.

B1 – Use

Once the product is cured, the use stage starts. No impacts associated to this module have been calculated.

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 the cleaning product.

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 6 for each system were calculated the same way as in the production and construction stages (A1 to A5 modules).

Table 6: Replacement scenarios of the resinous and cementitious flooring systems

System	Replacement scenario
Sika ComfortFloor®	Additional new top coat
Sika ComfortFloor® Pro	Additional new top coat
Sikafloor® Decoflake®	Additional new top coat
Sikafloor® ESD Control	Entire recoat
Sikafloor® Fastflor® CR	Additional new top coat
Sikafloor® Morritex	Additional new top coat
Sikafloor® PurCem®	Additional new top coat
Sikafloor® Quartzite®	Additional new top coat
Sikafloor® Resoclad MRW Type II	Additional new top coat
Sikafloor® Terrazzo	Refresh polish and overcoat with new top coat
Sikafloor®-52 PC	Refresh polish and overcoat with new top coat
Sikafloor®-53 PC	Refresh polish and overcoat with new top coat
Sikalastic®-3900 Traffic	Additional new top coat
Sikafloor® Smooth Epoxy	Additional new top coat

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 are attributable to the studied products since it is 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 replacements (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, vehicle, and infrastructure production. The default PCR transportation modes and distances were used.

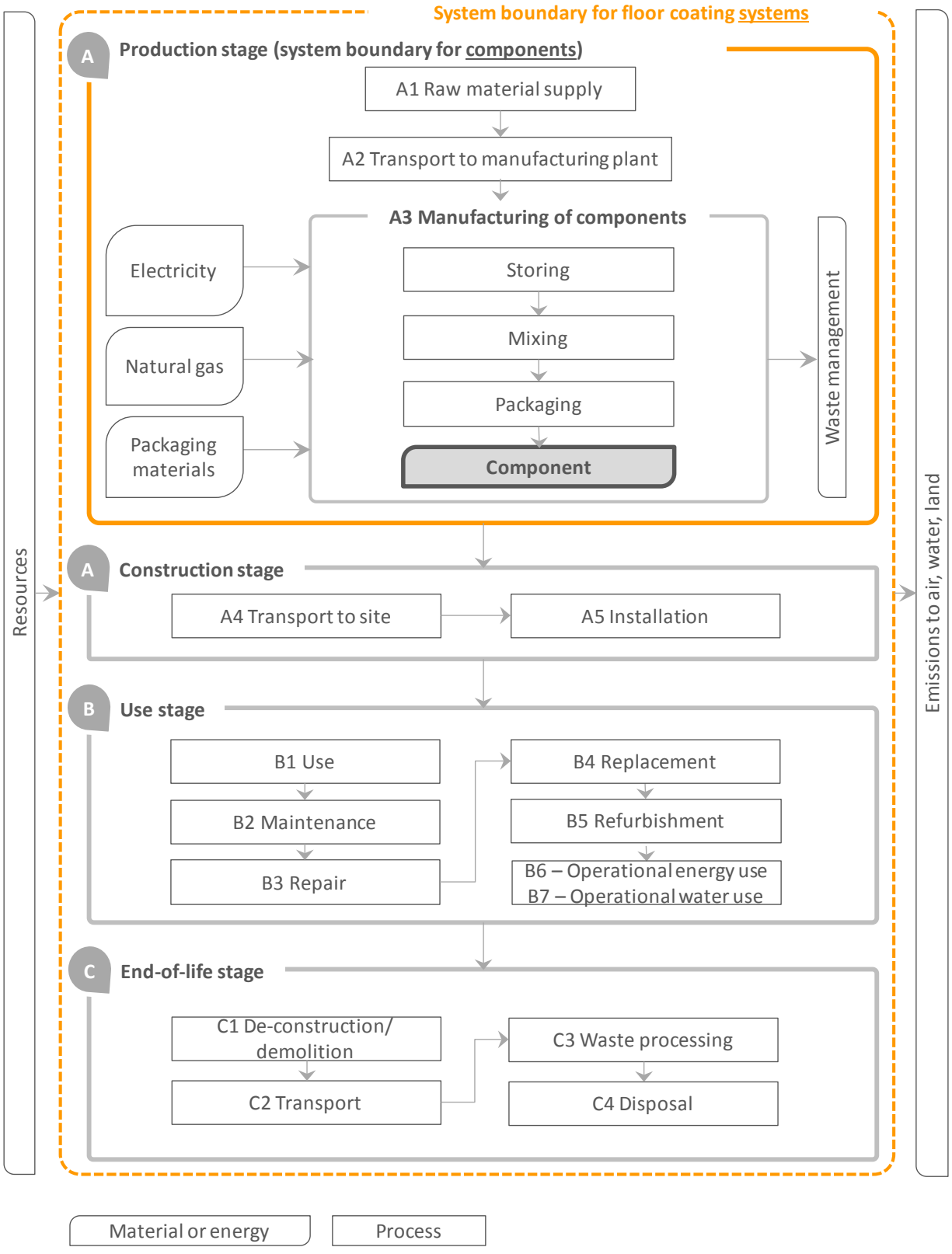

Figure 2: Process flow for all life cycle modules considered

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. Credits for energy recovery are considered negligible and are not accounted for in module D.

C4 – DISPOSAL

All applied coatings are assumed to be sent to landfill as well as unused water-based coatings from the A5 and B4 modules.

3.3. Geographical and temporal boundaries

The geographical boundaries are representative of current equipment and processes associated with resinous and cementitious floor coating system manufacturing, use and disposal in Canada. Since the data were collected for the year 2017, they are considered temporally representative (i.e. less than 5 years old). All data were modelled using the ecoinvent 3.4 database released in 2017 (ecoinvent, 2017), which meets the PCR requirements. A weighed average of production volume at each location is utilized for calculation purposes.

4. Potential environmental impacts assessment

This cradle-to-grave life cycle assessment 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 indicators reported are provided in the glossary (section 6.2).

4.1. Assumptions

When specific data was not available, generic data which fulfilled the minimum criteria of the PCR were used. The ecoinvent database v3.4 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 is 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 have been put into creating market groups for regions, countries and products. Other assumptions included in this LCA were related to raw material modelling, colours and transportation.

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 Canada for operations occurring in 2017 (less than 5 years old). **Generic data** collected for the upstream and downstream stages were representative of the Conadian context and technologies used.

The LCA model was developed with the SimaPro 8.5 software using ecoinvent 3.4 database, which was released in 2017 (less than 2 years). 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 (6 to 59) present the results for 1 m^2 of floor coating systems over the production, use, and end-of-life stages (A to C) according to each estimated service life in Table 3. Cradle-to-gate results (modules A1 to A3) of individual components are presented in appendix.

Table 7

Product: **Sika ComfortFloor®**

Application: **commercial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.33E+1	1.99E+1	5.27E-1	4.27E-1	0	1.16E+0	0	1.23E+0	0	0	0	0	7.63E-2	0	3.77E-3
AP	kg SO_2 eq.	1.12E-1	9.22E-2	3.57E-3	1.99E-3	0	6.40E-3	0	7.73E-3	0	0	0	0	4.38E-4	0	3.01E-6
EP	kg N eq.	6.30E-2	4.80E-2	7.47E-4	1.20E-3	0	8.53E-3	0	4.00E-3	0	0	0	0	6.26E-5	0	4.07E-4
SFP	kg O_3 eq.	1.45E+0	1.03E+0	9.61E-2	1.39E-1	0	5.84E-2	0	1.17E-1	0	0	0	0	1.20E-2	0	6.95E-5
ODP	kg CFC-11 eq.	8.35E-7	5.06E-7	1.26E-7	1.52E-8	0	6.14E-8	0	1.08E-7	0	0	0	0	1.83E-8	0	1.29E-10
Resource use																
$NRPR_E$	MJ	2.93E+2	2.46E+2	8.01E+0	5.32E+0	0	1.83E+1	0	1.31E+1	0	0	0	0	1.10E+0	0	2.86E-1
$NRPR_M$	kg	3.59E+0	3.26E+0	0	6.52E-2	0	0	0	2.68E-1	0	0	0	0	0	0	0
RPR_E	MJ	2.22E+1	1.44E+1	1.14E-1	3.40E-1	0	6.26E+0	0	1.12E+0	0	0	0	0	5.16E-3	0	7.36E-3
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.46E+2	2.04E+2	7.89E+0	4.43E+0	0	1.65E+1	0	1.12E+1	0	0	0	0	1.09E+0	0	2.81E-1
$ADP_{fossil,M}$	kg	3.59E+0	3.26E+0	0	6.52E-2	0	0	0	2.68E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.52E-1	3.93E-1	1.64E-3	8.24E-3	0	1.28E-1	0	2.11E-2	0	0	0	0	1.35E-4	0	3.16E-4
Waste*																
HWD	kg	1.03E-2	5.93E-3	0	1.19E-4	0	0	0	4.24E-3	0	0	0	0	0	0	0
NHWD	kg	2.11E+0	0	0	2.30E-1	0	0	0	2.72E-2	0	0	0	0	0	0	1.85E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

Note: "E±Y" means "× $10^{\pm Y}$". 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 8

Product: **Sika ComfortFloor®**

Application: **commercial**

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

Estimated technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.27E+1	1.99E+1	5.27E-1	4.27E-1	0	1.16E+0	0	6.14E-1	0	0	0	0	6.98E-2	0	3.45E-3
AP	kg SO_2 eq.	1.08E-1	9.22E-2	3.57E-3	1.99E-3	0	6.40E-3	0	3.87E-3	0	0	0	0	4.01E-4	0	2.76E-6
EP	kg N eq.	6.09E-2	4.80E-2	7.47E-4	1.20E-3	0	8.53E-3	0	2.00E-3	0	0	0	0	5.73E-5	0	3.72E-4
SFP	kg O_3 eq.	1.39E+0	1.03E+0	9.61E-2	1.39E-1	0	5.84E-2	0	5.87E-2	0	0	0	0	1.10E-2	0	6.36E-5
ODP	kg CFC-11 eq.	7.80E-7	5.06E-7	1.26E-7	1.52E-8	0	6.14E-8	0	5.40E-8	0	0	0	0	1.68E-8	0	1.18E-10
Resource use																
$NRPR_E$	MJ	2.86E+2	2.46E+2	8.01E+0	5.32E+0	0	1.83E+1	0	6.53E+0	0	0	0	0	1.00E+0	0	2.61E-1
$NRPR_M$	kg	3.46E+0	3.26E+0	0	6.52E-2	0	0	0	1.34E-1	0	0	0	0	0	0	0
RPR_E	MJ	2.17E+1	1.44E+1	1.14E-1	3.40E-1	0	6.26E+0	0	5.61E-1	0	0	0	0	4.72E-3	0	6.73E-3
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.40E+2	2.04E+2	7.89E+0	4.43E+0	0	1.65E+1	0	5.59E+0	0	0	0	0	9.96E-1	0	2.57E-1
$ADP_{fossil,M}$	kg	3.46E+0	3.26E+0	0	6.52E-2	0	0	0	1.34E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.42E-1	3.93E-1	1.64E-3	8.24E-3	0	1.28E-1	0	1.05E-2	0	0	0	0	1.23E-4	0	2.89E-4
Waste*																
HWD	kg	8.16E-3	5.93E-3	0	1.19E-4	0	0	0	2.12E-3	0	0	0	0	0	0	0
NHWD	kg	1.94E+0	0	0	2.30E-1	0	0	0	1.36E-2	0	0	0	0	0	0	1.69E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 9

Product: **Sika ComfortFloor®**

Application: **industrial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.52E+1	1.99E+1	5.27E-1	4.27E-1	0	1.16E+0	0	3.07E+0	0	0	0	0	9.47E-2	0	4.68E-3
AP	kg SO_2 eq.	1.24E-1	9.22E-2	3.57E-3	1.99E-3	0	6.40E-3	0	1.93E-2	0	0	0	0	5.43E-4	0	3.74E-6
EP	kg N eq.	6.91E-2	4.80E-2	7.47E-4	1.20E-3	0	8.53E-3	0	1.00E-2	0	0	0	0	7.77E-5	0	5.05E-4
SFP	kg O_3 eq.	1.63E+0	1.03E+0	9.61E-2	1.39E-1	0	5.84E-2	0	2.94E-1	0	0	0	0	1.49E-2	0	8.62E-5
ODP	kg CFC-11 eq.	1.00E-6	5.06E-7	1.26E-7	1.52E-8	0	6.14E-8	0	2.70E-7	0	0	0	0	2.28E-8	0	1.61E-10
Resource use																
$NRPR_E$	MJ	3.12E+2	2.46E+2	8.01E+0	5.32E+0	0	1.83E+1	0	3.26E+1	0	0	0	0	1.36E+0	0	3.55E-1
$NRPR_M$	kg	4.00E+0	3.26E+0	0	6.52E-2	0	0	0	6.69E-1	0	0	0	0	0	0	0
RPR_E	MJ	2.39E+1	1.44E+1	1.14E-1	3.40E-1	0	6.26E+0	0	2.80E+0	0	0	0	0	6.40E-3	0	9.13E-3
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.63E+2	2.04E+2	7.89E+0	4.43E+0	0	1.65E+1	0	2.80E+1	0	0	0	0	1.35E+0	0	3.49E-1
$ADP_{fossil,M}$	kg	4.00E+0	3.26E+0	0	6.52E-2	0	0	0	6.69E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.84E-1	3.93E-1	1.64E-3	8.24E-3	0	1.28E-1	0	5.27E-2	0	0	0	0	1.67E-4	0	3.92E-4
Waste*																
HWD	kg	1.66E-2	5.93E-3	0	1.19E-4	0	0	0	1.06E-2	0	0	0	0	0	0	0
NHWD	kg	2.59E+0	0	0	2.30E-1	0	0	0	6.81E-2	0	0	0	0	0	0	2.30E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

Note: "E±Y" means "× $10^{\pm Y}$". 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®**

Application: **industrial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.39E+1	1.99E+1	5.27E-1	4.27E-1	0	1.16E+0	0	1.84E+0	0	0	0	0	8.22E-2	0	4.07E-3
AP	kg SO_2 eq.	1.16E-1	9.22E-2	3.57E-3	1.99E-3	0	6.40E-3	0	1.16E-2	0	0	0	0	4.72E-4	0	3.25E-6
EP	kg N eq.	6.50E-2	4.80E-2	7.47E-4	1.20E-3	0	8.53E-3	0	6.01E-3	0	0	0	0	6.75E-5	0	4.39E-4
SFP	kg O_3 eq.	1.51E+0	1.03E+0	9.61E-2	1.39E-1	0	5.84E-2	0	1.76E-1	0	0	0	0	1.29E-2	0	7.49E-5
ODP	kg CFC-11 eq.	8.91E-7	5.06E-7	1.26E-7	1.52E-8	0	6.14E-8	0	1.62E-7	0	0	0	0	1.98E-8	0	1.39E-10
Resource use																
$NRPR_E$	MJ	2.99E+2	2.46E+2	8.01E+0	5.32E+0	0	1.83E+1	0	1.96E+1	0	0	0	0	1.18E+0	0	3.08E-1
$NRPR_M$	kg	3.73E+0	3.26E+0	0	6.52E-2	0	0	0	4.02E-1	0	0	0	0	0	0	0
RPR_E	MJ	2.28E+1	1.44E+1	1.14E-1	3.40E-1	0	6.26E+0	0	1.68E+0	0	0	0	0	5.56E-3	0	7.93E-3
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.51E+2	2.04E+2	7.89E+0	4.43E+0	0	1.65E+1	0	1.68E+1	0	0	0	0	1.17E+0	0	3.03E-1
$ADP_{fossil,M}$	kg	3.73E+0	3.26E+0	0	6.52E-2	0	0	0	4.02E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.63E-1	3.93E-1	1.64E-3	8.24E-3	0	1.28E-1	0	3.16E-2	0	0	0	0	1.45E-4	0	3.40E-4
Waste*																
HWD	kg	1.24E-2	5.93E-3	0	1.19E-4	0	0	0	6.36E-3	0	0	0	0	0	0	0
NHWD	kg	2.27E+0	0	0	2.30E-1	0	0	0	4.08E-2	0	0	0	0	0	0	1.99E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 11

Product: **Sika ComfortFloor® Pro**

Application: **commercial and industrial**

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

Estimated market and technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	4.71E+1	4.29E+1	1.45E+0	9.16E-1	0	1.16E+0	0	6.14E-1	0	0	0	0	6.99E-2	0	2.52E-3
AP	kg SO_2 eq.	2.33E-1	2.08E-1	9.80E-3	4.48E-3	0	6.40E-3	0	3.87E-3	0	0	0	0	4.01E-4	0	2.41E-6
EP	kg N eq.	1.09E-1	9.42E-2	2.06E-3	2.17E-3	0	8.53E-3	0	2.00E-3	0	0	0	0	5.74E-5	0	2.67E-4
SFP	kg O_3 eq.	3.10E+0	2.55E+0	2.64E-1	1.52E-1	0	5.84E-2	0	5.87E-2	0	0	0	0	1.10E-2	0	5.58E-5
ODP	kg CFC-11 eq.	1.31E-6	8.04E-7	3.47E-7	2.78E-8	0	6.14E-8	0	5.40E-8	0	0	0	0	1.68E-8	0	1.07E-10
Resource use																
$NRPR_E$	MJ	5.99E+2	5.40E+2	2.21E+1	1.16E+1	0	1.83E+1	0	6.53E+0	0	0	0	0	1.00E+0	0	2.61E-1
$NRPR_M$	kg	6.86E+0	6.59E+0	0	1.32E-1	0	0	0	1.34E-1	0	0	0	0	0	0	0
RPR_E	MJ	3.66E+1	2.88E+1	3.16E-1	6.40E-1	0	6.26E+0	0	5.61E-1	0	0	0	0	4.73E-3	0	6.71E-3
RPR_M	kg	2.89E-1	1.34E-2	0	2.69E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	5.02E+2	4.48E+2	2.17E+1	9.72E+0	0	1.65E+1	0	5.59E+0	0	0	0	0	9.98E-1	0	2.57E-1
$ADP_{fossil,M}$	kg	6.86E+0	6.59E+0	0	1.32E-1	0	0	0	1.34E-1	0	0	0	0	0	0	0
SM	kg	2.75E+0	2.70E+0	0	5.40E-2	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	1.02E+0	8.61E-1	4.51E-3	1.77E-2	0	1.28E-1	0	1.05E-2	0	0	0	0	1.24E-4	0	2.88E-4
Waste*																
HWD	kg	4.24E-3	2.08E-3	0	4.16E-5	0	0	0	2.12E-3	0	0	0	0	0	0	0
NHWD	kg	2.16E+0	0	0	4.53E-1	0	0	0	1.36E-2	0	0	0	0	0	0	1.70E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 12

Product: **Sika ComfortFloor® Pro**

Application: **commercial**

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

Estimated technical service life: **60 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	4.65E+1	4.29E+1	1.45E+0	9.16E-1	0	1.16E+0	0	0	0	0	0	0	6.36E-2	0	2.29E-3
AP	kg SO_2 eq.	2.29E-1	2.08E-1	9.80E-3	4.48E-3	0	6.40E-3	0	0	0	0	0	0	3.65E-4	0	2.19E-6
EP	kg N eq.	1.07E-1	9.42E-2	2.06E-3	2.17E-3	0	8.53E-3	0	0	0	0	0	0	5.22E-5	0	2.42E-4
SFP	kg O_3 eq.	3.04E+0	2.55E+0	2.64E-1	1.52E-1	0	5.84E-2	0	0	0	0	0	0	9.99E-3	0	5.08E-5
ODP	kg CFC-11 eq.	1.26E-6	8.04E-7	3.47E-7	2.78E-8	0	6.14E-8	0	0	0	0	0	0	1.53E-8	0	9.74E-11
Resource use																
$NRPR_E$	MJ	5.93E+2	5.40E+2	2.21E+1	1.16E+1	0	1.83E+1	0	0	0	0	0	0	9.13E-1	0	2.37E-1
$NRPR_M$	kg	6.72E+0	6.59E+0	0	1.32E-1	0	0	0	0	0	0	0	0	0	0	0
RPR_E	MJ	3.61E+1	2.88E+1	3.16E-1	6.40E-1	0	6.26E+0	0	0	0	0	0	0	4.30E-3	0	6.10E-3
RPR_M	kg	2.89E-1	1.34E-2	0	2.69E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	4.97E+2	4.48E+2	2.17E+1	9.72E+0	0	1.65E+1	0	0	0	0	0	0	9.07E-1	0	2.34E-1
$ADP_{fossil,M}$	kg	6.72E+0	6.59E+0	0	1.32E-1	0	0	0	0	0	0	0	0	0	0	0
SM	kg	2.75E+0	2.70E+0	0	5.40E-2	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	1.01E+0	8.61E-1	4.51E-3	1.77E-2	0	1.28E-1	0	0	0	0	0	0	1.12E-4	0	2.62E-4
Waste*																
HWD	kg	2.12E-3	2.08E-3	0	4.16E-5	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	2.00E+0	0	0	4.53E-1	0	0	0	0	0	0	0	0	0	0	1.54E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 13

Product: **Sika ComfortFloor® Pro**

Application: **industrial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	4.77E+1	4.29E+1	1.45E+0	9.16E-1	0	1.16E+0	0	1.23E+0	0	0	0	0	7.60E-2	0	2.74E-3
AP	kg SO_2 eq.	2.36E-1	2.08E-1	9.80E-3	4.48E-3	0	6.40E-3	0	7.73E-3	0	0	0	0	4.36E-4	0	2.62E-6
EP	kg N eq.	1.11E-1	9.42E-2	2.06E-3	2.17E-3	0	8.53E-3	0	4.00E-3	0	0	0	0	6.24E-5	0	2.90E-4
SFP	kg O_3 eq.	3.16E+0	2.55E+0	2.64E-1	1.52E-1	0	5.84E-2	0	1.17E-1	0	0	0	0	1.19E-2	0	6.07E-5
ODP	kg CFC-11 eq.	1.37E-6	8.04E-7	3.47E-7	2.78E-8	0	6.14E-8	0	1.08E-7	0	0	0	0	1.83E-8	0	1.16E-10
Resource use																
$NRPR_E$	MJ	6.06E+2	5.40E+2	2.21E+1	1.16E+1	0	1.83E+1	0	1.31E+1	0	0	0	0	1.09E+0	0	2.84E-1
$NRPR_M$	kg	6.99E+0	6.59E+0	0	1.32E-1	0	0	0	2.68E-1	0	0	0	0	0	0	0
RPR_E	MJ	3.72E+1	2.88E+1	3.16E-1	6.40E-1	0	6.26E+0	0	1.12E+0	0	0	0	0	5.14E-3	0	7.29E-3
RPR_M	kg	2.89E-1	1.34E-2	0	2.69E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	5.08E+2	4.48E+2	2.17E+1	9.72E+0	0	1.65E+1	0	1.12E+1	0	0	0	0	1.08E+0	0	2.79E-1
$ADP_{fossil,M}$	kg	6.99E+0	6.59E+0	0	1.32E-1	0	0	0	2.68E-1	0	0	0	0	0	0	0
SM	kg	2.75E+0	2.70E+0	0	5.40E-2	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	1.03E+0	8.61E-1	4.51E-3	1.77E-2	0	1.28E-1	0	2.11E-2	0	0	0	0	1.34E-4	0	3.14E-4
Waste*																
HWD	kg	6.36E-3	2.08E-3	0	4.16E-5	0	0	0	4.24E-3	0	0	0	0	0	0	0
NHWD	kg	2.32E+0	0	0	4.53E-1	0	0	0	2.72E-2	0	0	0	0	0	0	1.84E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 14

Product: **Sikafloor® Decoflake® System**

Application: **commercial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.96E+1	1.29E+1	6.16E-1	2.79E-1	0	1.16E+0	0	4.48E+0	0	0	0	0	9.90E-2	5.63E-2	1.49E-3
AP	kg SO_2 eq.	9.72E-2	6.51E-2	4.14E-3	1.40E-3	0	6.40E-3	0	1.95E-2	0	0	0	0	5.68E-4	4.70E-6	1.59E-6
EP	kg N eq.	6.17E-2	3.48E-2	8.80E-4	8.87E-4	0	8.53E-3	0	1.64E-2	0	0	0	0	8.13E-5	1.04E-5	1.55E-4
SFP	kg O_3 eq.	1.46E+0	7.09E-1	1.11E-1	2.41E-1	0	5.84E-2	0	3.25E-1	0	0	0	0	1.56E-2	1.41E-4	3.70E-5
ODP	kg CFC-11 eq.	2.01E-6	1.11E-6	1.47E-7	2.57E-8	0	6.14E-8	0	6.43E-7	0	0	0	0	2.38E-8	4.94E-11	7.22E-11
Resource use																
$NRPR_E$	MJ	2.46E+2	1.58E+2	9.37E+0	3.40E+0	0	1.83E+1	0	5.50E+1	0	0	0	0	1.42E+0	4.42E-3	3.64E-1
$NRPR_M$	kg	3.37E+0	2.47E+0	0	4.94E-2	0	0	0	8.54E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.96E+1	9.41E+0	1.35E-1	1.96E-1	0	6.26E+0	0	3.55E+0	0	0	0	0	6.69E-3	1.37E-4	9.33E-3
RPR_M	kg	2.80E-1	5.22E-3	0	1.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.15E+2	1.34E+2	9.22E+0	2.92E+0	0	1.65E+1	0	4.98E+1	0	0	0	0	1.41E+0	4.31E-3	3.58E-1
$ADP_{fossil,M}$	kg	3.37E+0	2.47E+0	0	4.94E-2	0	0	0	8.54E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.71E-1	1.77E-1	1.92E-3	3.60E-3	0	1.28E-1	0	6.02E-2	0	0	0	0	1.75E-4	4.24E-6	4.02E-4
Waste*																
HWD	kg	3.93E-2	2.69E-2	0	5.38E-4	0	0	0	1.18E-2	0	0	0	0	0	0	0
NHWD	kg	2.47E+0	0	0	6.46E-2	0	0	0	2.38E-2	0	0	0	0	0	0	2.38E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 15

Product: **Sikafloor® Decoflake® System**

Application: **commercial**

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

Estimated technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.73E+1	1.29E+1	6.16E-1	2.79E-1	0	1.16E+0	0	2.24E+0	0	0	0	0	8.10E-2	4.60E-2	1.22E-3
AP	kg SO_2 eq.	8.73E-2	6.51E-2	4.14E-3	1.40E-3	0	6.40E-3	0	9.74E-3	0	0	0	0	4.64E-4	3.85E-6	1.30E-6
EP	kg N eq.	5.35E-2	3.48E-2	8.80E-4	8.87E-4	0	8.53E-3	0	8.18E-3	0	0	0	0	6.65E-5	8.49E-6	1.27E-4
SFP	kg O_3 eq.	1.29E+0	7.09E-1	1.11E-1	2.41E-1	0	5.84E-2	0	1.63E-1	0	0	0	0	1.27E-2	1.15E-4	3.03E-5
ODP	kg CFC-11 eq.	1.68E-6	1.11E-6	1.47E-7	2.57E-8	0	6.14E-8	0	3.21E-7	0	0	0	0	1.95E-8	4.04E-11	5.90E-11
Resource use																
$NRPR_E$	MJ	2.18E+2	1.58E+2	9.37E+0	3.40E+0	0	1.83E+1	0	2.75E+1	0	0	0	0	1.16E+0	3.61E-3	2.97E-1
$NRPR_M$	kg	2.95E+0	2.47E+0	0	4.94E-2	0	0	0	4.27E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.78E+1	9.41E+0	1.35E-1	1.96E-1	0	6.26E+0	0	1.77E+0	0	0	0	0	5.47E-3	1.12E-4	7.63E-3
RPR_M	kg	2.80E-1	5.22E-3	0	1.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.89E+2	1.34E+2	9.22E+0	2.92E+0	0	1.65E+1	0	2.49E+1	0	0	0	0	1.16E+0	3.52E-3	2.93E-1
$ADP_{fossil,M}$	kg	2.95E+0	2.47E+0	0	4.94E-2	0	0	0	4.27E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.41E-1	1.77E-1	1.92E-3	3.60E-3	0	1.28E-1	0	3.01E-2	0	0	0	0	1.43E-4	3.47E-6	3.29E-4
Waste*																
HWD	kg	3.34E-2	2.69E-2	0	5.38E-4	0	0	0	5.92E-3	0	0	0	0	0	0	0
NHWD	kg	2.02E+0	0	0	6.46E-2	0	0	0	1.19E-2	0	0	0	0	0	0	1.94E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 16

Product: **Sikafloor® Decoflake® System**

Application: **industrial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.64E+1	1.29E+1	6.16E-1	2.79E-1	0	1.16E+0	0	1.12E+1	0	0	0	0	1.50E-1	8.55E-2	2.26E-3
AP	kg SO_2 eq.	1.27E-1	6.51E-2	4.14E-3	1.40E-3	0	6.40E-3	0	4.87E-2	0	0	0	0	8.63E-4	7.15E-6	2.42E-6
EP	kg N eq.	8.64E-2	3.48E-2	8.80E-4	8.87E-4	0	8.53E-3	0	4.09E-2	0	0	0	0	1.23E-4	1.58E-5	2.36E-4
SFP	kg O_3 eq.	1.96E+0	7.09E-1	1.11E-1	2.41E-1	0	5.84E-2	0	8.14E-1	0	0	0	0	2.36E-2	2.14E-4	5.62E-5
ODP	kg CFC-11 eq.	2.98E-6	1.11E-6	1.47E-7	2.57E-8	0	6.14E-8	0	1.61E-6	0	0	0	0	3.62E-8	7.50E-11	1.10E-10
Resource use																
$NRPR_E$	MJ	3.29E+2	1.58E+2	9.37E+0	3.40E+0	0	1.83E+1	0	1.37E+2	0	0	0	0	2.16E+0	6.71E-3	5.52E-1
$NRPR_M$	kg	4.65E+0	2.47E+0	0	4.94E-2	0	0	0	2.13E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.49E+1	9.41E+0	1.35E-1	1.96E-1	0	6.26E+0	0	8.87E+0	0	0	0	0	1.02E-2	2.08E-4	1.42E-2
RPR_M	kg	2.80E-1	5.22E-3	0	1.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.90E+2	1.34E+2	9.22E+0	2.92E+0	0	1.65E+1	0	1.25E+2	0	0	0	0	2.15E+0	6.54E-3	5.44E-1
$ADP_{fossil,M}$	kg	4.65E+0	2.47E+0	0	4.94E-2	0	0	0	2.13E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.61E-1	1.77E-1	1.92E-3	3.60E-3	0	1.28E-1	0	1.50E-1	0	0	0	0	2.66E-4	6.44E-6	6.11E-4
Waste*																
HWD	kg	5.70E-2	2.69E-2	0	5.38E-4	0	0	0	2.96E-2	0	0	0	0	0	0	0
NHWD	kg	3.73E+0	0	0	6.46E-2	0	0	0	5.96E-2	0	0	0	0	0	0	3.61E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 17

Product: **Sikafloor® Decoflake® System**

Application: **industrial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.19E+1	1.29E+1	6.16E-1	2.79E-1	0	1.16E+0	0	6.71E+0	0	0	0	0	1.16E-1	6.58E-2	1.74E-3
AP	kg SO_2 eq.	1.07E-1	6.51E-2	4.14E-3	1.40E-3	0	6.40E-3	0	2.92E-2	0	0	0	0	6.64E-4	5.50E-6	1.86E-6
EP	kg N eq.	6.99E-2	3.48E-2	8.80E-4	8.87E-4	0	8.53E-3	0	2.45E-2	0	0	0	0	9.50E-5	1.21E-5	1.81E-4
SFP	kg O_3 eq.	1.63E+0	7.09E-1	1.11E-1	2.41E-1	0	5.84E-2	0	4.88E-1	0	0	0	0	1.82E-2	1.65E-4	4.33E-5
ODP	kg CFC-11 eq.	2.33E-6	1.11E-6	1.47E-7	2.57E-8	0	6.14E-8	0	9.64E-7	0	0	0	0	2.78E-8	5.77E-11	8.43E-11
Resource use																
$NRPR_E$	MJ	2.74E+2	1.58E+2	9.37E+0	3.40E+0	0	1.83E+1	0	8.24E+1	0	0	0	0	1.66E+0	5.16E-3	4.25E-1
$NRPR_M$	kg	3.80E+0	2.47E+0	0	4.94E-2	0	0	0	1.28E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.13E+1	9.41E+0	1.35E-1	1.96E-1	0	6.26E+0	0	5.32E+0	0	0	0	0	7.82E-3	1.60E-4	1.09E-2
RPR_M	kg	2.80E-1	5.22E-3	0	1.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.40E+2	1.34E+2	9.22E+0	2.92E+0	0	1.65E+1	0	7.48E+1	0	0	0	0	1.65E+0	5.03E-3	4.19E-1
$ADP_{fossil,M}$	kg	3.80E+0	2.47E+0	0	4.94E-2	0	0	0	1.28E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.01E-1	1.77E-1	1.92E-3	3.60E-3	0	1.28E-1	0	9.02E-2	0	0	0	0	2.05E-4	4.96E-6	4.70E-4
Waste*																
HWD	kg	4.52E-2	2.69E-2	0	5.38E-4	0	0	0	1.78E-2	0	0	0	0	0	0	0
NHWD	kg	2.88E+0	0	0	6.46E-2	0	0	0	3.57E-2	0	0	0	0	0	0	2.78E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 18

Product: **Sikafloor® ESD Control System**

Application: **commercial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	3.24E+1	4.87E+0	1.74E-1	1.03E-1	0	1.16E+0	0	2.57E+1	0	0	0	0	3.05E-1	9.68E-2	1.09E-2
AP	kg SO_2 eq.	1.63E-1	2.41E-2	1.17E-3	5.19E-4	0	6.40E-3	0	1.29E-1	0	0	0	0	1.75E-3	8.09E-6	8.70E-6
EP	kg N eq.	1.28E-1	1.91E-2	2.47E-4	3.93E-4	0	8.53E-3	0	9.85E-2	0	0	0	0	2.51E-4	1.79E-5	1.17E-3
SFP	kg O_3 eq.	2.50E+0	2.80E-1	3.15E-2	8.72E-2	0	5.84E-2	0	1.99E+0	0	0	0	0	4.80E-2	2.43E-4	2.01E-4
ODP	kg CFC-11 eq.	4.04E-6	5.96E-7	4.16E-8	1.32E-8	0	6.14E-8	0	3.25E-6	0	0	0	0	7.35E-8	8.49E-11	3.73E-10
Resource use																
$NRPR_E$	MJ	4.13E+2	6.09E+1	2.64E+0	1.31E+0	0	1.83E+1	0	3.24E+2	0	0	0	0	4.39E+0	7.60E-3	1.13E+0
$NRPR_M$	kg	5.26E+0	8.60E-1	0	1.72E-2	0	0	0	4.39E+0	0	0	0	0	0	0	0
RPR_E	MJ	3.38E+1	4.45E+0	3.79E-2	9.57E-2	0	6.26E+0	0	2.29E+1	0	0	0	0	2.06E-2	2.35E-4	2.91E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.77E+2	5.54E+1	2.60E+0	1.19E+0	0	1.65E+1	0	2.96E+2	0	0	0	0	4.36E+0	7.41E-3	1.12E+0
$ADP_{fossil,M}$	kg	5.26E+0	8.60E-1	0	1.72E-2	0	0	0	4.39E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.68E-1	7.10E-2	5.41E-4	1.47E-3	0	1.28E-1	0	3.65E-1	0	0	0	0	5.40E-4	7.30E-6	1.25E-3
Waste*																
HWD	kg	9.69E-2	1.58E-2	0	3.17E-4	0	0	0	8.08E-2	0	0	0	0	0	0	0
NHWD	kg	7.65E+0	0	0	4.74E-2	0	0	0	2.37E-1	0	0	0	0	0	0	7.36E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 19

Product: **Sikafloor® ESD Control System**

Application: **commercial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.20E+1	4.87E+0	1.74E-1	1.03E-1	0	1.16E+0	0	1.54E+1	0	0	0	0	2.06E-1	6.44E-2	7.37E-3
AP	kg SO_2 eq.	1.11E-1	2.41E-2	1.17E-3	5.19E-4	0	6.40E-3	0	7.74E-2	0	0	0	0	1.18E-3	5.38E-6	5.89E-6
EP	kg N eq.	8.83E-2	1.91E-2	2.47E-4	3.93E-4	0	8.53E-3	0	5.91E-2	0	0	0	0	1.69E-4	1.19E-5	7.96E-4
SFP	kg O_3 eq.	1.69E+0	2.80E-1	3.15E-2	8.72E-2	0	5.84E-2	0	1.20E+0	0	0	0	0	3.23E-2	1.61E-4	1.36E-4
ODP	kg CFC-11 eq.	2.71E-6	5.96E-7	4.16E-8	1.32E-8	0	6.14E-8	0	1.95E-6	0	0	0	0	4.95E-8	5.65E-11	2.53E-10
Resource use																
$NRPR_E$	MJ	2.81E+2	6.09E+1	2.64E+0	1.31E+0	0	1.83E+1	0	1.95E+2	0	0	0	0	2.96E+0	5.06E-3	7.64E-1
$NRPR_M$	kg	3.51E+0	8.60E-1	0	1.72E-2	0	0	0	2.63E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.46E+1	4.45E+0	3.79E-2	9.57E-2	0	6.26E+0	0	1.37E+1	0	0	0	0	1.39E-2	1.56E-4	1.96E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.57E+2	5.54E+1	2.60E+0	1.19E+0	0	1.65E+1	0	1.77E+2	0	0	0	0	2.94E+0	4.93E-3	7.52E-1
$ADP_{fossil,M}$	kg	3.51E+0	8.60E-1	0	1.72E-2	0	0	0	2.63E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.21E-1	7.10E-2	5.41E-4	1.47E-3	0	1.28E-1	0	2.19E-1	0	0	0	0	3.64E-4	4.85E-6	8.44E-4
Waste*																
HWD	kg	6.46E-2	1.58E-2	0	3.17E-4	0	0	0	4.85E-2	0	0	0	0	0	0	0
NHWD	kg	5.15E+0	0	0	4.74E-2	0	0	0	1.42E-1	0	0	0	0	0	0	4.96E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 20

Product: **Sikafloor® ESD Control System**

Application: **industrial**

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

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

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	6.37E+1	4.87E+0	1.74E-1	1.03E-1	0	1.16E+0	0	5.66E+1	0	0	0	0	5.85E-1	1.88E-1	2.08E-2
AP	kg SO_2 eq.	3.19E-1	2.41E-2	1.17E-3	5.19E-4	0	6.40E-3	0	2.84E-1	0	0	0	0	3.36E-3	1.57E-5	1.66E-5
EP	kg N eq.	2.48E-1	1.91E-2	2.47E-4	3.93E-4	0	8.53E-3	0	2.17E-1	0	0	0	0	4.80E-4	3.46E-5	2.24E-3
SFP	kg O_3 eq.	4.94E+0	2.80E-1	3.15E-2	8.72E-2	0	5.84E-2	0	4.39E+0	0	0	0	0	9.19E-2	4.71E-4	3.82E-4
ODP	kg CFC-11 eq.	8.01E-6	5.96E-7	4.16E-8	1.32E-8	0	6.14E-8	0	7.16E-6	0	0	0	0	1.41E-7	1.65E-10	7.12E-10
Resource use																
$NRPR_E$	MJ	8.07E+2	6.09E+1	2.64E+0	1.31E+0	0	1.83E+1	0	7.13E+2	0	0	0	0	8.40E+0	1.48E-2	2.17E+0
$NRPR_M$	kg	1.05E+1	8.60E-1	0	1.72E-2	0	0	0	9.65E+0	0	0	0	0	0	0	0
RPR_E	MJ	6.13E+1	4.45E+0	3.79E-2	9.57E-2	0	6.26E+0	0	5.04E+1	0	0	0	0	3.95E-2	4.56E-4	5.58E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	7.37E+2	5.54E+1	2.60E+0	1.19E+0	0	1.65E+1	0	6.51E+2	0	0	0	0	8.35E+0	1.44E-2	2.14E+0
$ADP_{fossil,M}$	kg	1.05E+1	8.60E-1	0	1.72E-2	0	0	0	9.65E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	1.01E+0	7.10E-2	5.41E-4	1.47E-3	0	1.28E-1	0	8.03E-1	0	0	0	0	1.03E-3	1.42E-5	2.40E-3
Waste*																
HWD	kg	1.94E-1	1.58E-2	0	3.17E-4	0	0	0	1.78E-1	0	0	0	0	0	0	0
NHWD	kg	1.47E+1	0	0	4.74E-2	0	0	0	5.21E-1	0	0	0	0	0	0	1.41E+1
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 21

Product: **Sikafloor® Fastflor® CR Broadcast**

Application: **commercial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.40E+1	8.69E+0	5.97E-1	1.90E-1	0	1.16E+0	0	3.31E+0	0	0	0	0	8.83E-2	0	2.16E-3
AP	kg SO_2 eq.	7.25E-2	4.38E-2	4.02E-3	9.79E-4	0	6.40E-3	0	1.68E-2	0	0	0	0	5.07E-4	0	2.65E-6
EP	kg N eq.	5.70E-2	3.39E-2	8.52E-4	7.07E-4	0	8.53E-3	0	1.27E-2	0	0	0	0	7.25E-5	0	2.20E-4
SFP	kg O_3 eq.	9.05E-1	4.85E-1	1.08E-1	3.68E-2	0	5.84E-2	0	2.04E-1	0	0	0	0	1.39E-2	0	6.18E-5
ODP	kg CFC-11 eq.	1.85E-6	1.15E-6	1.43E-7	2.67E-8	0	6.14E-8	0	4.48E-7	0	0	0	0	2.12E-8	0	1.23E-10
Resource use																
$NRPR_E$	MJ	1.76E+2	1.05E+2	9.07E+0	2.34E+0	0	1.83E+1	0	4.01E+1	0	0	0	0	1.27E+0	0	3.28E-1
$NRPR_M$	kg	2.21E+0	1.59E+0	0	3.17E-2	0	0	0	5.95E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.65E+1	7.22E+0	1.31E-1	1.58E-1	0	6.26E+0	0	2.71E+0	0	0	0	0	5.97E-3	0	8.43E-3
RPR_M	kg	2.85E-1	1.02E-2	0	2.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.60E+2	9.47E+1	8.93E+0	2.13E+0	0	1.65E+1	0	3.64E+1	0	0	0	0	1.26E+0	0	3.23E-1
$ADP_{fossil,M}$	kg	2.21E+0	1.59E+0	0	3.17E-2	0	0	0	5.95E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.04E-1	1.25E-1	1.86E-3	2.60E-3	0	1.28E-1	0	4.58E-2	0	0	0	0	1.56E-4	0	3.63E-4
Waste*																
HWD	kg	3.07E-2	2.20E-2	0	4.40E-4	0	0	0	8.25E-3	0	0	0	0	0	0	0
NHWD	kg	2.25E+0	0	0	7.99E-2	0	0	0	2.75E-2	0	0	0	0	0	0	2.14E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 22

Product: **Sikafloor® Fastflor® CR Broadcast**

Application: **commercial**

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

Estimated technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.24E+1	8.69E+0	5.97E-1	1.90E-1	0	1.16E+0	0	1.65E+0	0	0	0	0	7.57E-2	0	1.85E-3
AP	kg SO_2 eq.	6.40E-2	4.38E-2	4.02E-3	9.79E-4	0	6.40E-3	0	8.38E-3	0	0	0	0	4.34E-4	0	2.27E-6
EP	kg N eq.	5.06E-2	3.39E-2	8.52E-4	7.07E-4	0	8.53E-3	0	6.37E-3	0	0	0	0	6.21E-5	0	1.89E-4
SFP	kg O_3 eq.	8.01E-1	4.85E-1	1.08E-1	3.68E-2	0	5.84E-2	0	1.02E-1	0	0	0	0	1.19E-2	0	5.30E-5
ODP	kg CFC-11 eq.	1.62E-6	1.15E-6	1.43E-7	2.67E-8	0	6.14E-8	0	2.24E-7	0	0	0	0	1.82E-8	0	1.05E-10
Resource use																
$NRPR_E$	MJ	1.56E+2	1.05E+2	9.07E+0	2.34E+0	0	1.83E+1	0	2.01E+1	0	0	0	0	1.09E+0	0	2.81E-1
$NRPR_M$	kg	1.91E+0	1.59E+0	0	3.17E-2	0	0	0	2.97E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.51E+1	7.22E+0	1.31E-1	1.58E-1	0	6.26E+0	0	1.35E+0	0	0	0	0	5.12E-3	0	7.23E-3
RPR_M	kg	2.85E-1	1.02E-2	0	2.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.42E+2	9.47E+1	8.93E+0	2.13E+0	0	1.65E+1	0	1.82E+1	0	0	0	0	1.08E+0	0	2.77E-1
$ADP_{fossil,M}$	kg	1.91E+0	1.59E+0	0	3.17E-2	0	0	0	2.97E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.81E-1	1.25E-1	1.86E-3	2.60E-3	0	1.28E-1	0	2.29E-2	0	0	0	0	1.34E-4	0	3.11E-4
Waste*																
HWD	kg	2.65E-2	2.20E-2	0	4.40E-4	0	0	0	4.12E-3	0	0	0	0	0	0	0
NHWD	kg	1.93E+0	0	0	7.99E-2	0	0	0	1.38E-2	0	0	0	0	0	0	1.84E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 23

Product: **Sikafloor® Fastflor® CR Broadcast**

Application: **industrial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.90E+1	8.69E+0	5.97E-1	1.90E-1	0	1.16E+0	0	8.27E+0	0	0	0	0	1.24E-1	0	3.03E-3
AP	kg SO_2 eq.	9.78E-2	4.38E-2	4.02E-3	9.79E-4	0	6.40E-3	0	4.19E-2	0	0	0	0	7.12E-4	0	3.72E-6
EP	kg N eq.	7.63E-2	3.39E-2	8.52E-4	7.07E-4	0	8.53E-3	0	3.19E-2	0	0	0	0	1.02E-4	0	3.09E-4
SFP	kg O_3 eq.	1.22E+0	4.85E-1	1.08E-1	3.68E-2	0	5.84E-2	0	5.09E-1	0	0	0	0	1.95E-2	0	8.69E-5
ODP	kg CFC-11 eq.	2.53E-6	1.15E-6	1.43E-7	2.67E-8	0	6.14E-8	0	1.12E-6	0	0	0	0	2.98E-8	0	1.72E-10
Resource use																
$NRPR_E$	MJ	2.37E+2	1.05E+2	9.07E+0	2.34E+0	0	1.83E+1	0	1.00E+2	0	0	0	0	1.78E+0	0	4.61E-1
$NRPR_M$	kg	3.10E+0	1.59E+0	0	3.17E-2	0	0	0	1.49E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.06E+1	7.22E+0	1.31E-1	1.58E-1	0	6.26E+0	0	6.77E+0	0	0	0	0	8.39E-3	0	1.18E-2
RPR_M	kg	2.85E-1	1.02E-2	0	2.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.16E+2	9.47E+1	8.93E+0	2.13E+0	0	1.65E+1	0	9.11E+1	0	0	0	0	1.77E+0	0	4.55E-1
$ADP_{fossil,M}$	kg	3.10E+0	1.59E+0	0	3.17E-2	0	0	0	1.49E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.73E-1	1.25E-1	1.86E-3	2.60E-3	0	1.28E-1	0	1.14E-1	0	0	0	0	2.19E-4	0	5.10E-4
Waste*																
HWD	kg	4.30E-2	2.20E-2	0	4.40E-4	0	0	0	2.06E-2	0	0	0	0	0	0	0
NHWD	kg	3.16E+0	0	0	7.99E-2	0	0	0	6.88E-2	0	0	0	0	0	0	3.01E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 24

Product: **Sikafloor® Fastflor® CR Broadcast**

Application: **industrial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.57E+1	8.69E+0	5.97E-1	1.90E-1	0	1.16E+0	0	4.96E+0	0	0	0	0	9.99E-2	0	2.44E-3
AP	kg SO_2 eq.	8.09E-2	4.38E-2	4.02E-3	9.79E-4	0	6.40E-3	0	2.51E-2	0	0	0	0	5.73E-4	0	3.00E-6
EP	kg N eq.	6.35E-2	3.39E-2	8.52E-4	7.07E-4	0	8.53E-3	0	1.91E-2	0	0	0	0	8.20E-5	0	2.49E-4
SFP	kg O_3 eq.	1.01E+0	4.85E-1	1.08E-1	3.68E-2	0	5.84E-2	0	3.05E-1	0	0	0	0	1.57E-2	0	7.00E-5
ODP	kg CFC-11 eq.	2.08E-6	1.15E-6	1.43E-7	2.67E-8	0	6.14E-8	0	6.73E-7	0	0	0	0	2.40E-8	0	1.39E-10
Resource use																
$NRPR_E$	MJ	1.96E+2	1.05E+2	9.07E+0	2.34E+0	0	1.83E+1	0	6.02E+1	0	0	0	0	1.43E+0	0	3.71E-1
$NRPR_M$	kg	2.51E+0	1.59E+0	0	3.17E-2	0	0	0	8.92E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.79E+1	7.22E+0	1.31E-1	1.58E-1	0	6.26E+0	0	4.06E+0	0	0	0	0	6.75E-3	0	9.54E-3
RPR_M	kg	2.85E-1	1.02E-2	0	2.04E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.79E+2	9.47E+1	8.93E+0	2.13E+0	0	1.65E+1	0	5.47E+1	0	0	0	0	1.43E+0	0	3.66E-1
$ADP_{fossil,M}$	kg	2.51E+0	1.59E+0	0	3.17E-2	0	0	0	8.92E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.27E-1	1.25E-1	1.86E-3	2.60E-3	0	1.28E-1	0	6.87E-2	0	0	0	0	1.77E-4	0	4.11E-4
Waste*																
HWD	kg	3.48E-2	2.20E-2	0	4.40E-4	0	0	0	1.24E-2	0	0	0	0	0	0	0
NHWD	kg	2.54E+0	0	0	7.99E-2	0	0	0	4.13E-2	0	0	0	0	0	0	2.42E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 25

Product: **Sikafloor® Fastflor® CR Smooth**

Application: **commercial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.79E+1	3.69E+0	1.05E-1	7.75E-2	0	1.16E+0	0	1.27E+1	0	0	0	0	1.59E-1	0	7.84E-3
AP	kg SO_2 eq.	9.14E-2	1.85E-2	7.07E-4	3.93E-4	0	6.40E-3	0	6.45E-2	0	0	0	0	9.10E-4	0	6.26E-6
EP	kg N eq.	7.34E-2	1.45E-2	1.49E-4	2.97E-4	0	8.53E-3	0	4.90E-2	0	0	0	0	1.30E-4	0	8.46E-4
SFP	kg O_3 eq.	1.10E+0	2.04E-1	1.90E-2	1.52E-2	0	5.84E-2	0	7.83E-1	0	0	0	0	2.49E-2	0	1.44E-4
ODP	kg CFC-11 eq.	2.35E-6	4.89E-7	2.50E-8	1.06E-8	0	6.14E-8	0	1.72E-6	0	0	0	0	3.81E-8	0	2.69E-10
Resource use																
$NRPR_E$	MJ	2.23E+2	4.44E+1	1.59E+0	9.48E-1	0	1.83E+1	0	1.54E+2	0	0	0	0	2.28E+0	0	5.94E-1
$NRPR_M$	kg	2.98E+0	6.82E-1	0	1.36E-2	0	0	0	2.29E+0	0	0	0	0	0	0	0
RPR_E	MJ	1.99E+1	3.08E+0	2.28E-2	6.65E-2	0	6.26E+0	0	1.04E+1	0	0	0	0	1.07E-2	0	1.53E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.02E+2	4.02E+1	1.57E+0	8.59E-1	0	1.65E+1	0	1.40E+2	0	0	0	0	2.26E+0	0	5.85E-1
$ADP_{fossil,M}$	kg	2.98E+0	6.82E-1	0	1.36E-2	0	0	0	2.29E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.59E-1	5.21E-2	3.26E-4	1.08E-3	0	1.28E-1	0	1.76E-1	0	0	0	0	2.80E-4	0	6.56E-4
Waste*																
HWD	kg	4.14E-2	9.46E-3	0	1.89E-4	0	0	0	3.17E-2	0	0	0	0	0	0	0
NHWD	kg	3.98E+0	0	0	3.22E-2	0	0	0	1.06E-1	0	0	0	0	0	0	3.84E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 26

Product: **Sikafloor® Fastflor® CR Smooth**

Application: **commercial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.28E+1	3.69E+0	1.05E-1	7.75E-2	0	1.16E+0	0	7.63E+0	0	0	0	0	1.19E-1	0	5.90E-3
AP	kg SO_2 eq.	6.54E-2	1.85E-2	7.07E-4	3.93E-4	0	6.40E-3	0	3.87E-2	0	0	0	0	6.85E-4	0	4.72E-6
EP	kg N eq.	5.36E-2	1.45E-2	1.49E-4	2.97E-4	0	8.53E-3	0	2.94E-2	0	0	0	0	9.81E-5	0	6.37E-4
SFP	kg O_3 eq.	7.85E-1	2.04E-1	1.90E-2	1.52E-2	0	5.84E-2	0	4.70E-1	0	0	0	0	1.88E-2	0	1.09E-4
ODP	kg CFC-11 eq.	1.65E-6	4.89E-7	2.50E-8	1.06E-8	0	6.14E-8	0	1.03E-6	0	0	0	0	2.87E-8	0	2.03E-10
Resource use																
$NRPR_E$	MJ	1.60E+2	4.44E+1	1.59E+0	9.48E-1	0	1.83E+1	0	9.26E+1	0	0	0	0	1.72E+0	0	4.47E-1
$NRPR_M$	kg	2.07E+0	6.82E-1	0	1.36E-2	0	0	0	1.37E+0	0	0	0	0	0	0	0
RPR_E	MJ	1.57E+1	3.08E+0	2.28E-2	6.65E-2	0	6.26E+0	0	6.25E+0	0	0	0	0	8.07E-3	0	1.15E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.45E+2	4.02E+1	1.57E+0	8.59E-1	0	1.65E+1	0	8.41E+1	0	0	0	0	1.70E+0	0	4.40E-1
$ADP_{fossil,M}$	kg	2.07E+0	6.82E-1	0	1.36E-2	0	0	0	1.37E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.88E-1	5.21E-2	3.26E-4	1.08E-3	0	1.28E-1	0	1.06E-1	0	0	0	0	2.11E-4	0	4.94E-4
Waste*																
HWD	kg	2.87E-2	9.46E-3	0	1.89E-4	0	0	0	1.90E-2	0	0	0	0	0	0	0
NHWD	kg	2.99E+0	0	0	3.22E-2	0	0	0	6.35E-2	0	0	0	0	0	0	2.90E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 27

Product: **Sikafloor® Fastflor® CR Smooth**

Application: **industrial**

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

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

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	3.33E+1	3.69E+0	1.05E-1	7.75E-2	0	1.16E+0	0	2.80E+1	0	0	0	0	2.68E-1	0	1.33E-2
AP	kg SO_2 eq.	1.69E-1	1.85E-2	7.07E-4	3.93E-4	0	6.40E-3	0	1.42E-1	0	0	0	0	1.54E-3	0	1.06E-5
EP	kg N eq.	1.33E-1	1.45E-2	1.49E-4	2.97E-4	0	8.53E-3	0	1.08E-1	0	0	0	0	2.20E-4	0	1.43E-3
SFP	kg O_3 eq.	2.06E+0	2.04E-1	1.90E-2	1.52E-2	0	5.84E-2	0	1.72E+0	0	0	0	0	4.22E-2	0	2.44E-4
ODP	kg CFC-11 eq.	4.45E-6	4.89E-7	2.50E-8	1.06E-8	0	6.14E-8	0	3.79E-6	0	0	0	0	6.46E-8	0	4.55E-10
Resource use																
$NRPR_E$	MJ	4.10E+2	4.44E+1	1.59E+0	9.48E-1	0	1.83E+1	0	3.40E+2	0	0	0	0	3.85E+0	0	1.00E+0
$NRPR_M$	kg	5.73E+0	6.82E-1	0	1.36E-2	0	0	0	5.03E+0	0	0	0	0	0	0	0
RPR_E	MJ	3.24E+1	3.08E+0	2.28E-2	6.65E-2	0	6.26E+0	0	2.29E+1	0	0	0	0	1.81E-2	0	2.59E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.72E+2	4.02E+1	1.57E+0	8.59E-1	0	1.65E+1	0	3.08E+2	0	0	0	0	3.83E+0	0	9.90E-1
$ADP_{fossil,M}$	kg	5.73E+0	6.82E-1	0	1.36E-2	0	0	0	5.03E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.70E-1	5.21E-2	3.26E-4	1.08E-3	0	1.28E-1	0	3.87E-1	0	0	0	0	4.75E-4	0	1.11E-3
Waste*																
HWD	kg	7.94E-2	9.46E-3	0	1.89E-4	0	0	0	6.98E-2	0	0	0	0	0	0	0
NHWD	kg	6.77E+0	0	0	3.22E-2	0	0	0	2.33E-1	0	0	0	0	0	0	6.51E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 28

Product: **Sikafloor® Morritex® trowelled**

Application: **commercial and industrial**

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

Estimated market and technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.49E+1	9.46E+0	1.85E+0	2.30E-1	0	1.16E+0	0	2.09E+0	0	0	0	0	8.67E-2	0	4.29E-3
AP	kg SO_2 eq.	7.61E-2	4.42E-2	1.24E-2	1.15E-3	0	6.40E-3	0	1.14E-2	0	0	0	0	4.98E-4	0	3.43E-6
EP	kg N eq.	5.37E-2	3.36E-2	2.65E-3	7.33E-4	0	8.53E-3	0	7.64E-3	0	0	0	0	7.12E-5	0	4.63E-4
SFP	kg O_3 eq.	1.35E+0	5.44E-1	3.33E-1	2.04E-1	0	5.84E-2	0	1.97E-1	0	0	0	0	1.36E-2	0	7.90E-5
ODP	kg CFC-11 eq.	2.09E-6	1.24E-6	4.42E-7	3.44E-8	0	6.14E-8	0	2.94E-7	0	0	0	0	2.09E-8	0	1.47E-10
Resource use																
$NRPR_E$	MJ	1.91E+2	1.15E+2	2.81E+1	2.92E+0	0	1.83E+1	0	2.51E+1	0	0	0	0	1.25E+0	0	3.25E-1
$NRPR_M$	kg	2.26E+0	1.84E+0	0	3.68E-2	0	0	0	3.81E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.68E+1	7.83E+0	4.06E-1	1.70E-1	0	6.26E+0	0	2.09E+0	0	0	0	0	5.86E-3	0	8.37E-3
RPR_M	kg	3.21E-1	4.47E-2	0	8.94E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.76E+2	1.04E+2	2.77E+1	2.70E+0	0	1.65E+1	0	2.27E+1	0	0	0	0	1.24E+0	0	3.20E-1
$ADP_{fossil,M}$	kg	2.26E+0	1.84E+0	0	3.68E-2	0	0	0	3.81E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.16E-1	1.46E-1	5.78E-3	3.07E-3	0	1.28E-1	0	3.30E-2	0	0	0	0	1.53E-4	0	3.59E-4
Waste*																
HWD	kg	3.62E-2	2.79E-2	0	5.58E-4	0	0	0	7.73E-3	0	0	0	0	0	0	0
NHWD	kg	2.19E+0	0	0	7.58E-2	0	0	0	1.15E-2	0	0	0	0	0	0	2.10E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 29

Product: **Sikafloor® Morritex® trowelled**

Application: **commercial**

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

Estimated technical service life: **60 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.28E+1	9.46E+0	1.85E+0	2.30E-1	0	1.16E+0	0	0	0	0	0	0	6.36E-2	0	3.14E-3
AP	kg SO_2 eq.	6.46E-2	4.42E-2	1.24E-2	1.15E-3	0	6.40E-3	0	0	0	0	0	0	3.65E-4	0	2.51E-6
EP	kg N eq.	4.59E-2	3.36E-2	2.65E-3	7.33E-4	0	8.53E-3	0	0	0	0	0	0	5.22E-5	0	3.39E-4
SFP	kg O_3 eq.	1.15E+0	5.44E-1	3.33E-1	2.04E-1	0	5.84E-2	0	0	0	0	0	0	9.99E-3	0	5.79E-5
ODP	kg CFC-11 eq.	1.79E-6	1.24E-6	4.42E-7	3.44E-8	0	6.14E-8	0	0	0	0	0	0	1.53E-8	0	1.08E-10
Resource use																
$NRPR_E$	MJ	1.65E+2	1.15E+2	2.81E+1	2.92E+0	0	1.83E+1	0	0	0	0	0	0	9.13E-1	0	2.38E-1
$NRPR_M$	kg	1.88E+0	1.84E+0	0	3.68E-2	0	0	0	0	0	0	0	0	0	0	0
RPR_E	MJ	1.47E+1	7.83E+0	4.06E-1	1.70E-1	0	6.26E+0	0	0	0	0	0	0	4.30E-3	0	6.13E-3
RPR_M	kg	3.21E-1	4.47E-2	0	8.94E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.53E+2	1.04E+2	2.77E+1	2.70E+0	0	1.65E+1	0	0	0	0	0	0	9.07E-1	0	2.35E-1
$ADP_{fossil,M}$	kg	1.88E+0	1.84E+0	0	3.68E-2	0	0	0	0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.83E-1	1.46E-1	5.78E-3	3.07E-3	0	1.28E-1	0	0	0	0	0	0	1.12E-4	0	2.63E-4
Waste*																
HWD	kg	2.85E-2	2.79E-2	0	5.58E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	1.62E+0	0	0	7.58E-2	0	0	0	0	0	0	0	0	0	0	1.54E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 30

Product: **Sikafloor® Morritex® trowelled**

Application: **industrial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.70E+1	9.46E+0	1.85E+0	2.30E-1	0	1.16E+0	0	4.18E+0	0	0	0	0	1.09E-1	0	5.39E-3
AP	kg SO_2 eq.	8.75E-2	4.42E-2	1.24E-2	1.15E-3	0	6.40E-3	0	2.27E-2	0	0	0	0	6.25E-4	0	4.30E-6
EP	kg N eq.	6.15E-2	3.36E-2	2.65E-3	7.33E-4	0	8.53E-3	0	1.53E-2	0	0	0	0	8.95E-5	0	5.81E-4
SFP	kg O_3 eq.	1.55E+0	5.44E-1	3.33E-1	2.04E-1	0	5.84E-2	0	3.94E-1	0	0	0	0	1.71E-2	0	9.92E-5
ODP	kg CFC-11 eq.	2.39E-6	1.24E-6	4.42E-7	3.44E-8	0	6.14E-8	0	5.88E-7	0	0	0	0	2.62E-8	0	1.85E-10
Resource use																
$NRPR_E$	MJ	2.16E+2	1.15E+2	2.81E+1	2.92E+0	0	1.83E+1	0	5.01E+1	0	0	0	0	1.56E+0	0	4.08E-1
$NRPR_M$	kg	2.64E+0	1.84E+0	0	3.68E-2	0	0	0	7.61E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.89E+1	7.83E+0	4.06E-1	1.70E-1	0	6.26E+0	0	4.17E+0	0	0	0	0	7.36E-3	0	1.05E-2
RPR_M	kg	3.21E-1	4.47E-2	0	8.94E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.99E+2	1.04E+2	2.77E+1	2.70E+0	0	1.65E+1	0	4.53E+1	0	0	0	0	1.55E+0	0	4.02E-1
$ADP_{fossil,M}$	kg	2.64E+0	1.84E+0	0	3.68E-2	0	0	0	7.61E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.50E-1	1.46E-1	5.78E-3	3.07E-3	0	1.28E-1	0	6.61E-2	0	0	0	0	1.93E-4	0	4.51E-4
Waste*																
HWD	kg	4.39E-2	2.79E-2	0	5.58E-4	0	0	0	1.55E-2	0	0	0	0	0	0	0
NHWD	kg	2.74E+0	0	0	7.58E-2	0	0	0	2.30E-2	0	0	0	0	0	0	2.64E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 31

Product: **Sikafloor® Morritex® smooth and broadcast**

Application: **commercial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.90E+1	1.25E+1	1.23E+0	2.79E-1	0	1.16E+0	0	1.35E+1	0	0	0	0	2.13E-1	1.21E-1	4.06E-3
AP	kg SO_2 eq.	1.58E-1	6.72E-2	8.28E-3	1.53E-3	0	6.40E-3	0	7.32E-2	0	0	0	0	1.22E-3	1.01E-5	3.75E-6
EP	kg N eq.	1.08E-1	4.68E-2	1.76E-3	9.80E-4	0	8.53E-3	0	4.92E-2	0	0	0	0	1.75E-4	2.23E-5	4.31E-4
SFP	kg O_3 eq.	2.75E+0	7.18E-1	2.22E-1	4.45E-1	0	5.84E-2	0	1.27E+0	0	0	0	0	3.34E-2	3.03E-4	8.68E-5
ODP	kg CFC-11 eq.	4.05E-6	1.71E-6	2.94E-7	4.09E-8	0	6.14E-8	0	1.90E-6	0	0	0	0	5.12E-8	1.06E-10	1.66E-10
Resource use																
$NRPR_E$	MJ	3.54E+2	1.48E+2	1.87E+1	3.40E+0	0	1.83E+1	0	1.62E+2	0	0	0	0	3.06E+0	9.50E-3	7.82E-1
$NRPR_M$	kg	4.85E+0	2.35E+0	0	4.71E-2	0	0	0	2.45E+0	0	0	0	0	0	0	0
RPR_E	MJ	3.31E+1	1.28E+1	2.70E-1	2.69E-1	0	6.26E+0	0	1.35E+1	0	0	0	0	1.44E-2	2.94E-4	2.01E-2
RPR_M	kg	2.96E-1	2.09E-2	0	4.17E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.21E+2	1.33E+2	1.84E+1	3.10E+0	0	1.65E+1	0	1.46E+2	0	0	0	0	3.04E+0	9.26E-3	7.71E-1
$ADP_{fossil,M}$	kg	4.85E+0	2.35E+0	0	4.71E-2	0	0	0	2.45E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.61E-1	2.10E-1	3.85E-3	4.32E-3	0	1.28E-1	0	2.13E-1	0	0	0	0	3.76E-4	9.12E-6	8.66E-4
Waste*																
HWD	kg	9.86E-2	4.78E-2	0	9.56E-4	0	0	0	4.99E-2	0	0	0	0	0	0	0
NHWD	kg	5.27E+0	0	0	8.30E-2	0	0	0	7.42E-2	0	0	0	0	0	0	5.11E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 32

Product: **Sikafloor® Morritex® smooth and broadcast**

Application: **commercial**

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

Estimated technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.21E+1	1.25E+1	1.23E+0	2.79E-1	0	1.16E+0	0	6.74E+0	0	0	0	0	1.37E-1	7.78E-2	2.44E-3
AP	kg SO_2 eq.	1.21E-1	6.72E-2	8.28E-3	1.53E-3	0	6.40E-3	0	3.66E-2	0	0	0	0	7.84E-4	6.50E-6	2.34E-6
EP	kg N eq.	8.31E-2	4.68E-2	1.76E-3	9.80E-4	0	8.53E-3	0	2.46E-2	0	0	0	0	1.12E-4	1.43E-5	2.58E-4
SFP	kg O_3 eq.	2.10E+0	7.18E-1	2.22E-1	4.45E-1	0	5.84E-2	0	6.35E-1	0	0	0	0	2.15E-2	1.95E-4	5.43E-5
ODP	kg CFC-11 eq.	3.09E-6	1.71E-6	2.94E-7	4.09E-8	0	6.14E-8	0	9.48E-7	0	0	0	0	3.29E-8	6.82E-11	1.04E-10
Resource use																
$NRPR_E$	MJ	2.72E+2	1.48E+2	1.87E+1	3.40E+0	0	1.83E+1	0	8.08E+1	0	0	0	0	1.96E+0	6.10E-3	5.03E-1
$NRPR_M$	kg	3.63E+0	2.35E+0	0	4.71E-2	0	0	0	1.23E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.64E+1	1.28E+1	2.70E-1	2.69E-1	0	6.26E+0	0	6.73E+0	0	0	0	0	9.24E-3	1.89E-4	1.29E-2
RPR_M	kg	2.96E-1	2.09E-2	0	4.17E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.47E+2	1.33E+2	1.84E+1	3.10E+0	0	1.65E+1	0	7.31E+1	0	0	0	0	1.95E+0	5.95E-3	4.95E-1
$ADP_{fossil,M}$	kg	3.63E+0	2.35E+0	0	4.71E-2	0	0	0	1.23E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.54E-1	2.10E-1	3.85E-3	4.32E-3	0	1.28E-1	0	1.07E-1	0	0	0	0	2.42E-4	5.86E-6	5.56E-4
Waste*																
HWD	kg	7.37E-2	4.78E-2	0	9.56E-4	0	0	0	2.49E-2	0	0	0	0	0	0	0
NHWD	kg	3.40E+0	0	0	8.30E-2	0	0	0	3.71E-2	0	0	0	0	0	0	3.28E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 33

Product: **Sikafloor® Morritex® smooth and broadcast**

Application: **industrial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	4.95E+1	1.25E+1	1.23E+0	2.79E-1	0	1.16E+0	0	3.37E+1	0	0	0	0	4.29E-1	2.44E-1	8.68E-3
AP	kg SO_2 eq.	2.69E-1	6.72E-2	8.28E-3	1.53E-3	0	6.40E-3	0	1.83E-1	0	0	0	0	2.46E-3	2.04E-5	7.74E-6
EP	kg N eq.	1.82E-1	4.68E-2	1.76E-3	9.80E-4	0	8.53E-3	0	1.23E-1	0	0	0	0	3.52E-4	4.50E-5	9.26E-4
SFP	kg O_3 eq.	4.68E+0	7.18E-1	2.22E-1	4.45E-1	0	5.84E-2	0	3.17E+0	0	0	0	0	6.75E-2	6.12E-4	1.79E-4
ODP	kg CFC-11 eq.	6.95E-6	1.71E-6	2.94E-7	4.09E-8	0	6.14E-8	0	4.74E-6	0	0	0	0	1.03E-7	2.14E-10	3.40E-10
Resource use																
$NRPR_E$	MJ	6.00E+2	1.48E+2	1.87E+1	3.40E+0	0	1.83E+1	0	4.04E+2	0	0	0	0	6.16E+0	1.92E-2	1.58E+0
$NRPR_M$	kg	8.54E+0	2.35E+0	0	4.71E-2	0	0	0	6.14E+0	0	0	0	0	0	0	0
RPR_E	MJ	5.33E+1	1.28E+1	2.70E-1	2.69E-1	0	6.26E+0	0	3.36E+1	0	0	0	0	2.90E-2	5.93E-4	4.05E-2
RPR_M	kg	2.96E-1	2.09E-2	0	4.17E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	5.45E+2	1.33E+2	1.84E+1	3.10E+0	0	1.65E+1	0	3.65E+2	0	0	0	0	6.12E+0	1.87E-2	1.56E+0
$ADP_{fossil,M}$	kg	8.54E+0	2.35E+0	0	4.71E-2	0	0	0	6.14E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	8.82E-1	2.10E-1	3.85E-3	4.32E-3	0	1.28E-1	0	5.33E-1	0	0	0	0	7.59E-4	1.84E-5	1.75E-3
Waste*																
HWD	kg	1.73E-1	4.78E-2	0	9.56E-4	0	0	0	1.25E-1	0	0	0	0	0	0	0
NHWD	kg	1.06E+1	0	0	8.30E-2	0	0	0	1.85E-1	0	0	0	0	0	0	1.03E+1
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 34

Product: **Sikafloor® Morritex® smooth and broadcast**

Application: **industrial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	3.58E+1	1.25E+1	1.23E+0	2.79E-1	0	1.16E+0	0	2.02E+1	0	0	0	0	2.83E-1	1.61E-1	5.56E-3
AP	kg SO_2 eq.	1.95E-1	6.72E-2	8.28E-3	1.53E-3	0	6.40E-3	0	1.10E-1	0	0	0	0	1.62E-3	1.34E-5	5.04E-6
EP	kg N eq.	1.33E-1	4.68E-2	1.76E-3	9.80E-4	0	8.53E-3	0	7.39E-2	0	0	0	0	2.32E-4	2.97E-5	5.92E-4
SFP	kg O_3 eq.	3.39E+0	7.18E-1	2.22E-1	4.45E-1	0	5.84E-2	0	1.90E+0	0	0	0	0	4.45E-2	4.03E-4	1.17E-4
ODP	kg CFC-11 eq.	5.02E-6	1.71E-6	2.94E-7	4.09E-8	0	6.14E-8	0	2.84E-6	0	0	0	0	6.81E-8	1.41E-10	2.22E-10
Resource use																
$NRPR_E$	MJ	4.36E+2	1.48E+2	1.87E+1	3.40E+0	0	1.83E+1	0	2.42E+2	0	0	0	0	4.06E+0	1.26E-2	1.04E+0
$NRPR_M$	kg	6.08E+0	2.35E+0	0	4.71E-2	0	0	0	3.68E+0	0	0	0	0	0	0	0
RPR_E	MJ	3.98E+1	1.28E+1	2.70E-1	2.69E-1	0	6.26E+0	0	2.02E+1	0	0	0	0	1.91E-2	3.91E-4	2.67E-2
RPR_M	kg	2.96E-1	2.09E-2	0	4.17E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.96E+2	1.33E+2	1.84E+1	3.10E+0	0	1.65E+1	0	2.19E+2	0	0	0	0	4.04E+0	1.23E-2	1.03E+0
$ADP_{fossil,M}$	kg	6.08E+0	2.35E+0	0	4.71E-2	0	0	0	3.68E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	6.68E-1	2.10E-1	3.85E-3	4.32E-3	0	1.28E-1	0	3.20E-1	0	0	0	0	5.01E-4	1.21E-5	1.15E-3
Waste*																
HWD	kg	1.24E-1	4.78E-2	0	9.56E-4	0	0	0	7.48E-2	0	0	0	0	0	0	0
NHWD	kg	6.99E+0	0	0	8.30E-2	0	0	0	1.11E-1	0	0	0	0	0	0	6.79E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 35

Product: **Sikafloor® NA PurCem®**

Application: **industrial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.78E+1	1.27E+1	2.04E+0	3.88E-1	0	1.16E+0	0	1.40E+0	0	0	0	0	9.32E-2	0	3.93E-3
AP	kg SO_2 eq.	8.94E-2	5.87E-2	1.37E-2	1.92E-3	0	6.40E-3	0	8.13E-3	0	0	0	0	5.35E-4	0	3.42E-6
EP	kg N eq.	3.23E-2	1.54E-2	2.92E-3	1.88E-3	0	8.53E-3	0	3.14E-3	0	0	0	0	7.65E-5	0	4.20E-4
SFP	kg O_3 eq.	1.42E+0	7.39E-1	3.68E-1	1.29E-1	0	5.84E-2	0	1.15E-1	0	0	0	0	1.46E-2	0	7.92E-5
ODP	kg CFC-11 eq.	1.48E-6	7.18E-7	4.87E-7	3.64E-8	0	6.14E-8	0	1.50E-7	0	0	0	0	2.24E-8	0	1.50E-10
Resource use																
$NRPR_E$	MJ	2.18E+2	1.46E+2	3.10E+1	4.28E+0	0	1.83E+1	0	1.71E+1	0	0	0	0	1.34E+0	0	3.48E-1
$NRPR_M$	kg	2.35E+0	2.04E+0	0	4.08E-2	0	0	0	2.68E-1	0	0	0	0	0	0	0
RPR_E	MJ	2.34E+1	1.42E+1	4.47E-1	2.97E-1	0	6.26E+0	0	2.20E+0	0	0	0	0	6.30E-3	0	8.96E-3
RPR_M	kg	1.16E+0	7.15E-1	0	1.43E-2	0	2.75E-1	0	1.58E-1	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.96E+2	1.28E+2	3.05E+1	3.90E+0	0	1.65E+1	0	1.55E+1	0	0	0	0	1.33E+0	0	3.43E-1
$ADP_{fossil,M}$	kg	2.35E+0	2.04E+0	0	4.08E-2	0	0	0	2.68E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.47E-1	2.78E-1	6.37E-3	5.81E-3	0	1.28E-1	0	2.79E-2	0	0	0	0	1.65E-4	0	3.85E-4
Waste*																
HWD	kg	5.44E-2	4.54E-2	0	9.08E-4	0	0	0	8.10E-3	0	0	0	0	0	0	0
NHWD	kg	2.49E+0	8.12E-2	0	1.38E-1	0	0	0	1.48E-2	0	0	0	0	0	0	2.26E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 36

Product: **Sikafloor® NA PurCem®**

Application: **industrial**

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

Estimated technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.71E+1	1.27E+1	2.04E+0	3.88E-1	0	1.16E+0	0	7.01E-1	0	0	0	0	7.84E-2	0	3.30E-3
AP	kg SO_2 eq.	8.52E-2	5.87E-2	1.37E-2	1.92E-3	0	6.40E-3	0	4.06E-3	0	0	0	0	4.50E-4	0	2.88E-6
EP	kg N eq.	3.07E-2	1.54E-2	2.92E-3	1.88E-3	0	8.53E-3	0	1.57E-3	0	0	0	0	6.44E-5	0	3.53E-4
SFP	kg O_3 eq.	1.36E+0	7.39E-1	3.68E-1	1.29E-1	0	5.84E-2	0	5.77E-2	0	0	0	0	1.23E-2	0	6.66E-5
ODP	kg CFC-11 eq.	1.40E-6	7.18E-7	4.87E-7	3.64E-8	0	6.14E-8	0	7.52E-8	0	0	0	0	1.89E-8	0	1.26E-10
Resource use																
$NRPR_E$	MJ	2.09E+2	1.46E+2	3.10E+1	4.28E+0	0	1.83E+1	0	8.53E+0	0	0	0	0	1.13E+0	0	2.93E-1
$NRPR_M$	kg	2.21E+0	2.04E+0	0	4.08E-2	0	0	0	1.34E-1	0	0	0	0	0	0	0
RPR_E	MJ	2.23E+1	1.42E+1	4.47E-1	2.97E-1	0	6.26E+0	0	1.10E+0	0	0	0	0	5.30E-3	0	7.54E-3
RPR_M	kg	1.08E+0	7.15E-1	0	1.43E-2	0	2.75E-1	0	7.88E-2	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.88E+2	1.28E+2	3.05E+1	3.90E+0	0	1.65E+1	0	7.77E+0	0	0	0	0	1.12E+0	0	2.89E-1
$ADP_{fossil,M}$	kg	2.21E+0	2.04E+0	0	4.08E-2	0	0	0	1.34E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.33E-1	2.78E-1	6.37E-3	5.81E-3	0	1.28E-1	0	1.39E-2	0	0	0	0	1.39E-4	0	3.24E-4
Waste*																
HWD	kg	5.03E-2	4.54E-2	0	9.08E-4	0	0	0	4.05E-3	0	0	0	0	0	0	0
NHWD	kg	2.13E+0	8.12E-2	0	1.38E-1	0	0	0	7.41E-3	0	0	0	0	0	0	1.90E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 37

Product: **Sikafloor® Quartzite® System HDB and trowelled**

Application: **commercial and industrial**

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

Estimated market and technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.64E+1	1.09E+1	1.84E+0	2.58E-1	0	1.16E+0	0	2.22E+0	0	0	0	0	8.13E-2	0	4.02E-3
AP	kg SO_2 eq.	7.82E-2	4.81E-2	1.23E-2	1.23E-3	0	6.40E-3	0	9.68E-3	0	0	0	0	4.66E-4	0	3.21E-6
EP	kg N eq.	5.93E-2	3.87E-2	2.63E-3	8.35E-4	0	8.53E-3	0	8.11E-3	0	0	0	0	6.67E-5	0	4.34E-4
SFP	kg O_3 eq.	1.41E+0	6.14E-1	3.30E-1	2.07E-1	0	5.84E-2	0	1.83E-1	0	0	0	0	1.28E-2	0	7.40E-5
ODP	kg CFC-11 eq.	2.29E-6	1.43E-6	4.38E-7	3.82E-8	0	6.14E-8	0	3.10E-7	0	0	0	0	1.96E-8	0	1.38E-10
Resource use																
$NRPR_E$	MJ	2.12E+2	1.33E+2	2.79E+1	3.29E+0	0	1.83E+1	0	2.77E+1	0	0	0	0	1.17E+0	0	3.04E-1
$NRPR_M$	kg	2.61E+0	2.14E+0	0	4.29E-2	0	0	0	4.27E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.71E+1	8.50E+0	4.03E-1	1.84E-1	0	6.26E+0	0	1.75E+0	0	0	0	0	5.50E-3	0	7.84E-3
RPR_M	kg	3.20E-1	4.37E-2	0	8.74E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.95E+2	1.21E+2	2.75E+1	3.03E+0	0	1.65E+1	0	2.52E+1	0	0	0	0	1.16E+0	0	3.00E-1
$ADP_{fossil,M}$	kg	2.61E+0	2.14E+0	0	4.29E-2	0	0	0	4.27E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.28E-1	1.60E-1	5.73E-3	3.36E-3	0	1.28E-1	0	3.01E-2	0	0	0	0	1.44E-4	0	3.37E-4
Waste*																
HWD	kg	3.63E-2	2.98E-2	0	5.95E-4	0	0	0	5.92E-3	0	0	0	0	0	0	0
NHWD	kg	2.07E+0	0	0	8.33E-2	0	0	0	1.20E-2	0	0	0	0	0	0	1.97E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 38

Product: **Sikafloor® Quartzite® System HDB and trowelled**

Application: **commercial**

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

Estimated technical service life: **60 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.42E+1	1.09E+1	1.84E+0	2.58E-1	0	1.16E+0	0	0	0	0	0	0	6.36E-2	0	3.14E-3
AP	kg SO_2 eq.	6.84E-2	4.81E-2	1.23E-2	1.23E-3	0	6.40E-3	0	0	0	0	0	0	3.65E-4	0	2.51E-6
EP	kg N eq.	5.11E-2	3.87E-2	2.63E-3	8.35E-4	0	8.53E-3	0	0	0	0	0	0	5.22E-5	0	3.39E-4
SFP	kg O_3 eq.	1.22E+0	6.14E-1	3.30E-1	2.07E-1	0	5.84E-2	0	0	0	0	0	0	9.99E-3	0	5.79E-5
ODP	kg CFC-11 eq.	1.98E-6	1.43E-6	4.38E-7	3.82E-8	0	6.14E-8	0	0	0	0	0	0	1.53E-8	0	1.08E-10
Resource use																
$NRPR_E$	MJ	1.84E+2	1.33E+2	2.79E+1	3.29E+0	0	1.83E+1	0	0	0	0	0	0	9.13E-1	0	2.38E-1
$NRPR_M$	kg	2.19E+0	2.14E+0	0	4.29E-2	0	0	0	0	0	0	0	0	0	0	0
RPR_E	MJ	1.54E+1	8.50E+0	4.03E-1	1.84E-1	0	6.26E+0	0	0	0	0	0	0	4.30E-3	0	6.13E-3
RPR_M	kg	3.20E-1	4.37E-2	0	8.74E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.69E+2	1.21E+2	2.75E+1	3.03E+0	0	1.65E+1	0	0	0	0	0	0	9.07E-1	0	2.35E-1
$ADP_{fossil,M}$	kg	2.19E+0	2.14E+0	0	4.29E-2	0	0	0	0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.98E-1	1.60E-1	5.73E-3	3.36E-3	0	1.28E-1	0	0	0	0	0	0	1.12E-4	0	2.63E-4
Waste*																
HWD	kg	3.04E-2	2.98E-2	0	5.95E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	1.63E+0	0	0	8.33E-2	0	0	0	0	0	0	0	0	0	0	1.54E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 39

Product: **Sikafloor® Quartzite® System HDB and trowelled**

Application: **industrial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.87E+1	1.09E+1	1.84E+0	2.58E-1	0	1.16E+0	0	4.44E+0	0	0	0	0	9.83E-2	0	4.86E-3
AP	kg SO_2 eq.	8.80E-2	4.81E-2	1.23E-2	1.23E-3	0	6.40E-3	0	1.94E-2	0	0	0	0	5.64E-4	0	3.88E-6
EP	kg N eq.	6.75E-2	3.87E-2	2.63E-3	8.35E-4	0	8.53E-3	0	1.62E-2	0	0	0	0	8.07E-5	0	5.24E-4
SFP	kg O_3 eq.	1.59E+0	6.14E-1	3.30E-1	2.07E-1	0	5.84E-2	0	3.66E-1	0	0	0	0	1.55E-2	0	8.95E-5
ODP	kg CFC-11 eq.	2.61E-6	1.43E-6	4.38E-7	3.82E-8	0	6.14E-8	0	6.19E-7	0	0	0	0	2.36E-8	0	1.67E-10
Resource use																
$NRPR_E$	MJ	2.40E+2	1.33E+2	2.79E+1	3.29E+0	0	1.83E+1	0	5.54E+1	0	0	0	0	1.41E+0	0	3.68E-1
$NRPR_M$	kg	3.04E+0	2.14E+0	0	4.29E-2	0	0	0	8.54E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.89E+1	8.50E+0	4.03E-1	1.84E-1	0	6.26E+0	0	3.50E+0	0	0	0	0	6.64E-3	0	9.48E-3
RPR_M	kg	3.20E-1	4.37E-2	0	8.74E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.20E+2	1.21E+2	2.75E+1	3.03E+0	0	1.65E+1	0	5.04E+1	0	0	0	0	1.40E+0	0	3.63E-1
$ADP_{fossil,M}$	kg	3.04E+0	2.14E+0	0	4.29E-2	0	0	0	8.54E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.58E-1	1.60E-1	5.73E-3	3.36E-3	0	1.28E-1	0	6.02E-2	0	0	0	0	1.74E-4	0	4.07E-4
Waste*																
HWD	kg	4.22E-2	2.98E-2	0	5.95E-4	0	0	0	1.18E-2	0	0	0	0	0	0	0
NHWD	kg	2.49E+0	0	0	8.33E-2	0	0	0	2.39E-2	0	0	0	0	0	0	2.38E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 40

Product: **Sikafloor® Quartzite® System Broadcast**

Application: **commercial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.61E+1	8.83E+0	1.27E+0	2.05E-1	0	1.16E+0	0	4.44E+0	0	0	0	0	9.90E-2	5.63E-2	2.45E-3
AP	kg SO_2 eq.	7.47E-2	3.89E-2	8.50E-3	9.66E-4	0	6.40E-3	0	1.94E-2	0	0	0	0	5.68E-4	4.70E-6	1.96E-6
EP	kg N eq.	6.01E-2	3.25E-2	1.81E-3	6.93E-4	0	8.53E-3	0	1.62E-2	0	0	0	0	8.13E-5	1.04E-5	2.64E-4
SFP	kg O_3 eq.	1.23E+0	4.91E-1	2.28E-1	7.35E-2	0	5.84E-2	0	3.66E-1	0	0	0	0	1.56E-2	1.41E-4	4.51E-5
ODP	kg CFC-11 eq.	2.27E-6	1.24E-6	3.02E-7	3.15E-8	0	6.14E-8	0	6.19E-7	0	0	0	0	2.38E-8	4.94E-11	8.39E-11
Resource use																
$NRPR_E$	MJ	2.05E+2	1.08E+2	1.92E+1	2.59E+0	0	1.83E+1	0	5.54E+1	0	0	0	0	1.42E+0	4.42E-3	3.65E-1
$NRPR_M$	kg	2.57E+0	1.68E+0	0	3.37E-2	0	0	0	8.54E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.73E+1	7.15E+0	2.77E-1	1.54E-1	0	6.26E+0	0	3.50E+0	0	0	0	0	6.69E-3	1.37E-4	9.37E-3
RPR_M	kg	3.05E-1	2.92E-2	0	5.84E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.87E+2	9.75E+1	1.89E+1	2.38E+0	0	1.65E+1	0	5.04E+1	0	0	0	0	1.41E+0	4.31E-3	3.59E-1
$ADP_{fossil,M}$	kg	2.57E+0	1.68E+0	0	3.37E-2	0	0	0	8.54E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.25E-1	1.30E-1	3.95E-3	2.70E-3	0	1.28E-1	0	6.02E-2	0	0	0	0	1.75E-4	4.24E-6	4.03E-4
Waste*																
HWD	kg	3.56E-2	2.33E-2	0	4.67E-4	0	0	0	1.18E-2	0	0	0	0	0	0	0
NHWD	kg	2.47E+0	0	0	6.50E-2	0	0	0	2.39E-2	0	0	0	0	0	0	2.38E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 41

Product: **Sikafloor® Quartzite® System Broadcast**

Application: **commercial**

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

Estimated technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.38E+1	8.83E+0	1.27E+0	2.05E-1	0	1.16E+0	0	2.22E+0	0	0	0	0	8.10E-2	4.60E-2	2.00E-3
AP	kg SO_2 eq.	6.49E-2	3.89E-2	8.50E-3	9.66E-4	0	6.40E-3	0	9.68E-3	0	0	0	0	4.64E-4	3.85E-6	1.60E-6
EP	kg N eq.	5.19E-2	3.25E-2	1.81E-3	6.93E-4	0	8.53E-3	0	8.11E-3	0	0	0	0	6.65E-5	8.49E-6	2.16E-4
SFP	kg O_3 eq.	1.05E+0	4.91E-1	2.28E-1	7.35E-2	0	5.84E-2	0	1.83E-1	0	0	0	0	1.27E-2	1.15E-4	3.69E-5
ODP	kg CFC-11 eq.	1.96E-6	1.24E-6	3.02E-7	3.15E-8	0	6.14E-8	0	3.10E-7	0	0	0	0	1.95E-8	4.04E-11	6.86E-11
Resource use																
$NRPR_E$	MJ	1.77E+2	1.08E+2	1.92E+1	2.59E+0	0	1.83E+1	0	2.77E+1	0	0	0	0	1.16E+0	3.61E-3	2.98E-1
$NRPR_M$	kg	2.14E+0	1.68E+0	0	3.37E-2	0	0	0	4.27E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.56E+1	7.15E+0	2.77E-1	1.54E-1	0	6.26E+0	0	1.75E+0	0	0	0	0	5.47E-3	1.12E-4	7.66E-3
RPR_M	kg	3.05E-1	2.92E-2	0	5.84E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.62E+2	9.75E+1	1.89E+1	2.38E+0	0	1.65E+1	0	2.52E+1	0	0	0	0	1.16E+0	3.52E-3	2.94E-1
$ADP_{fossil,M}$	kg	2.14E+0	1.68E+0	0	3.37E-2	0	0	0	4.27E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.95E-1	1.30E-1	3.95E-3	2.70E-3	0	1.28E-1	0	3.01E-2	0	0	0	0	1.43E-4	3.47E-6	3.30E-4
Waste*																
HWD	kg	2.97E-2	2.33E-2	0	4.67E-4	0	0	0	5.92E-3	0	0	0	0	0	0	0
NHWD	kg	2.02E+0	0	0	6.50E-2	0	0	0	1.20E-2	0	0	0	0	0	0	1.94E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 42

Product: **Sikafloor® Quartzite® System Broadcast**

Application: **industrial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.28E+1	8.83E+0	1.27E+0	2.05E-1	0	1.16E+0	0	1.11E+1	0	0	0	0	1.50E-1	8.55E-2	3.72E-3
AP	kg SO_2 eq.	1.04E-1	3.89E-2	8.50E-3	9.66E-4	0	6.40E-3	0	4.84E-2	0	0	0	0	8.63E-4	7.15E-6	2.97E-6
EP	kg N eq.	8.46E-2	3.25E-2	1.81E-3	6.93E-4	0	8.53E-3	0	4.05E-2	0	0	0	0	1.23E-4	1.58E-5	4.01E-4
SFP	kg O_3 eq.	1.79E+0	4.91E-1	2.28E-1	7.35E-2	0	5.84E-2	0	9.14E-1	0	0	0	0	2.36E-2	2.14E-4	6.85E-5
ODP	kg CFC-11 eq.	3.22E-6	1.24E-6	3.02E-7	3.15E-8	0	6.14E-8	0	1.55E-6	0	0	0	0	3.62E-8	7.50E-11	1.28E-10
Resource use																
$NRPR_E$	MJ	2.89E+2	1.08E+2	1.92E+1	2.59E+0	0	1.83E+1	0	1.39E+2	0	0	0	0	2.16E+0	6.71E-3	5.54E-1
$NRPR_M$	kg	3.85E+0	1.68E+0	0	3.37E-2	0	0	0	2.13E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.26E+1	7.15E+0	2.77E-1	1.54E-1	0	6.26E+0	0	8.74E+0	0	0	0	0	1.02E-2	2.08E-4	1.42E-2
RPR_M	kg	3.05E-1	2.92E-2	0	5.84E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.64E+2	9.75E+1	1.89E+1	2.38E+0	0	1.65E+1	0	1.26E+2	0	0	0	0	2.15E+0	6.54E-3	5.46E-1
$ADP_{fossil,M}$	kg	3.85E+0	1.68E+0	0	3.37E-2	0	0	0	2.13E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.16E-1	1.30E-1	3.95E-3	2.70E-3	0	1.28E-1	0	1.51E-1	0	0	0	0	2.66E-4	6.44E-6	6.13E-4
Waste*																
HWD	kg	5.34E-2	2.33E-2	0	4.67E-4	0	0	0	2.96E-2	0	0	0	0	0	0	0
NHWD	kg	3.74E+0	0	0	6.50E-2	0	0	0	5.98E-2	0	0	0	0	0	0	3.61E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 43

Product: **Sikafloor® Quartzite® System Broadcast**

Application: **industrial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.83E+1	8.83E+0	1.27E+0	2.05E-1	0	1.16E+0	0	6.66E+0	0	0	0	0	1.16E-1	6.58E-2	2.86E-3
AP	kg SO_2 eq.	8.44E-2	3.89E-2	8.50E-3	9.66E-4	0	6.40E-3	0	2.90E-2	0	0	0	0	6.64E-4	5.50E-6	2.28E-6
EP	kg N eq.	6.83E-2	3.25E-2	1.81E-3	6.93E-4	0	8.53E-3	0	2.43E-2	0	0	0	0	9.50E-5	1.21E-5	3.08E-4
SFP	kg O_3 eq.	1.42E+0	4.91E-1	2.28E-1	7.35E-2	0	5.84E-2	0	5.48E-1	0	0	0	0	1.82E-2	1.65E-4	5.27E-5
ODP	kg CFC-11 eq.	2.59E-6	1.24E-6	3.02E-7	3.15E-8	0	6.14E-8	0	9.29E-7	0	0	0	0	2.78E-8	5.77E-11	9.81E-11
Resource use																
$NRPR_E$	MJ	2.33E+2	1.08E+2	1.92E+1	2.59E+0	0	1.83E+1	0	8.31E+1	0	0	0	0	1.66E+0	5.16E-3	4.26E-1
$NRPR_M$	kg	3.00E+0	1.68E+0	0	3.37E-2	0	0	0	1.28E+0	0	0	0	0	0	0	0
RPR_E	MJ	1.91E+1	7.15E+0	2.77E-1	1.54E-1	0	6.26E+0	0	5.25E+0	0	0	0	0	7.82E-3	1.60E-4	1.09E-2
RPR_M	kg	3.05E-1	2.92E-2	0	5.84E-4	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.13E+2	9.75E+1	1.89E+1	2.38E+0	0	1.65E+1	0	7.55E+1	0	0	0	0	1.65E+0	5.03E-3	4.20E-1
$ADP_{fossil,M}$	kg	3.00E+0	1.68E+0	0	3.37E-2	0	0	0	1.28E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.55E-1	1.30E-1	3.95E-3	2.70E-3	0	1.28E-1	0	9.03E-2	0	0	0	0	2.05E-4	4.96E-6	4.71E-4
Waste*																
HWD	kg	4.16E-2	2.33E-2	0	4.67E-4	0	0	0	1.78E-2	0	0	0	0	0	0	0
NHWD	kg	2.88E+0	0	0	6.50E-2	0	0	0	3.59E-2	0	0	0	0	0	0	2.78E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 44

Product: **Sikafloor® Resoclad MRW Type II**

Application: **commercial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	8.95E+0	4.19E+0	2.10E-1	1.23E-1	0	1.16E+0	0	3.10E+0	0	0	0	0	9.84E-2	5.59E-2	2.43E-3
AP	kg SO_2 eq.	4.22E-2	1.85E-2	1.43E-3	4.25E-4	0	6.40E-3	0	1.49E-2	0	0	0	0	5.64E-4	4.68E-6	1.94E-6
EP	kg N eq.	3.32E-2	9.46E-3	2.99E-4	1.28E-3	0	8.53E-3	0	1.33E-2	0	0	0	0	8.08E-5	1.03E-5	2.62E-4
SFP	kg O_3 eq.	9.06E-1	2.31E-1	3.83E-2	1.34E-1	0	5.84E-2	0	4.28E-1	0	0	0	0	1.55E-2	1.40E-4	4.48E-5
ODP	kg CFC-11 eq.	7.37E-7	2.63E-7	5.04E-8	7.21E-9	0	6.14E-8	0	3.31E-7	0	0	0	0	2.37E-8	4.91E-11	8.34E-11
Resource use																
$NRPR_E$	MJ	1.09E+2	4.96E+1	3.20E+0	1.13E+0	0	1.83E+1	0	3.52E+1	0	0	0	0	1.41E+0	4.39E-3	3.62E-1
$NRPR_M$	kg	1.02E+0	6.91E-1	0	1.38E-2	0	0	0	3.17E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.27E+1	3.26E+0	4.57E-2	7.50E-2	0	6.26E+0	0	3.00E+0	0	0	0	0	6.65E-3	1.36E-4	9.31E-3
RPR_M	kg	7.65E-1	4.80E-1	0	9.60E-3	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	9.83E+1	4.35E+1	3.15E+0	9.97E-1	0	1.65E+1	0	3.23E+1	0	0	0	0	1.40E+0	4.28E-3	3.57E-1
$ADP_{fossil,M}$	kg	1.02E+0	6.91E-1	0	1.38E-2	0	0	0	3.17E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.43E-1	7.57E-2	6.54E-4	1.62E-3	0	1.28E-1	0	3.67E-2	0	0	0	0	1.74E-4	4.22E-6	4.01E-4
Waste*																
HWD	kg	3.10E-2	1.86E-2	0	3.73E-4	0	0	0	1.20E-2	0	0	0	0	0	0	0
NHWD	kg	2.49E+0	0	0	8.12E-2	0	0	0	4.49E-2	0	0	0	0	0	0	2.36E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 45

Product: **Sikafloor® Resoclad MRW Type II**

Application: **commercial**

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

Estimated technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	7.37E+0	4.19E+0	2.10E-1	1.23E-1	0	1.16E+0	0	1.55E+0	0	0	0	0	8.05E-2	4.58E-2	1.99E-3
AP	kg SO_2 eq.	3.47E-2	1.85E-2	1.43E-3	4.25E-4	0	6.40E-3	0	7.46E-3	0	0	0	0	4.62E-4	3.83E-6	1.59E-6
EP	kg N eq.	2.65E-2	9.46E-3	2.99E-4	1.28E-3	0	8.53E-3	0	6.65E-3	0	0	0	0	6.61E-5	8.44E-6	2.15E-4
SFP	kg O_3 eq.	6.89E-1	2.31E-1	3.83E-2	1.34E-1	0	5.84E-2	0	2.14E-1	0	0	0	0	1.27E-2	1.15E-4	3.67E-5
ODP	kg CFC-11 eq.	5.68E-7	2.63E-7	5.04E-8	7.21E-9	0	6.14E-8	0	1.66E-7	0	0	0	0	1.94E-8	4.02E-11	6.83E-11
Resource use																
$NRPR_E$	MJ	9.12E+1	4.96E+1	3.20E+0	1.13E+0	0	1.83E+1	0	1.76E+1	0	0	0	0	1.16E+0	3.60E-3	2.97E-1
$NRPR_M$	kg	8.63E-1	6.91E-1	0	1.38E-2	0	0	0	1.59E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.11E+1	3.26E+0	4.57E-2	7.50E-2	0	6.26E+0	0	1.50E+0	0	0	0	0	5.44E-3	1.11E-4	7.62E-3
RPR_M	kg	7.65E-1	4.80E-1	0	9.60E-3	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	8.18E+1	4.35E+1	3.15E+0	9.97E-1	0	1.65E+1	0	1.62E+1	0	0	0	0	1.15E+0	3.50E-3	2.92E-1
$ADP_{fossil,M}$	kg	8.63E-1	6.91E-1	0	1.38E-2	0	0	0	1.59E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m³	2.25E-1	7.57E-2	6.54E-4	1.62E-3	0	1.28E-1	0	1.84E-2	0	0	0	0	1.42E-4	3.45E-6	3.28E-4
Waste*																
HWD	kg	2.50E-2	1.86E-2	0	3.73E-4	0	0	0	5.99E-3	0	0	0	0	0	0	0
NHWD	kg	2.04E+0	0	0	8.12E-2	0	0	0	2.25E-2	0	0	0	0	0	0	1.93E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 46

Product: **Sikafloor® Resoclad MRW Type II**

Application: **industrial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.37E+1	4.19E+0	2.10E-1	1.23E-1	0	1.16E+0	0	7.75E+0	0	0	0	0	1.51E-1	8.58E-2	3.73E-3
AP	kg SO_2 eq.	6.49E-2	1.85E-2	1.43E-3	4.25E-4	0	6.40E-3	0	3.73E-2	0	0	0	0	8.65E-4	7.17E-6	2.98E-6
EP	kg N eq.	5.33E-2	9.46E-3	2.99E-4	1.28E-3	0	8.53E-3	0	3.32E-2	0	0	0	0	1.24E-4	1.58E-5	4.02E-4
SFP	kg O_3 eq.	1.56E+0	2.31E-1	3.83E-2	1.34E-1	0	5.84E-2	0	1.07E+0	0	0	0	0	2.37E-2	2.15E-4	6.87E-5
ODP	kg CFC-11 eq.	1.25E-6	2.63E-7	5.04E-8	7.21E-9	0	6.14E-8	0	8.28E-7	0	0	0	0	3.63E-8	7.52E-11	1.28E-10
Resource use																
$NRPR_E$	MJ	1.63E+2	4.96E+1	3.20E+0	1.13E+0	0	1.83E+1	0	8.81E+1	0	0	0	0	2.17E+0	6.73E-3	5.55E-1
$NRPR_M$	kg	1.50E+0	6.91E-1	0	1.38E-2	0	0	0	7.93E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.72E+1	3.26E+0	4.57E-2	7.50E-2	0	6.26E+0	0	7.49E+0	0	0	0	0	1.02E-2	2.08E-4	1.43E-2
RPR_M	kg	7.65E-1	4.80E-1	0	9.60E-3	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.48E+2	4.35E+1	3.15E+0	9.97E-1	0	1.65E+1	0	8.08E+1	0	0	0	0	2.15E+0	6.56E-3	5.47E-1
$ADP_{fossil,M}$	kg	1.50E+0	6.91E-1	0	1.38E-2	0	0	0	7.93E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.99E-1	7.57E-2	6.54E-4	1.62E-3	0	1.28E-1	0	9.18E-2	0	0	0	0	2.67E-4	6.46E-6	6.14E-4
Waste*																
HWD	kg	4.89E-2	1.86E-2	0	3.73E-4	0	0	0	2.99E-2	0	0	0	0	0	0	0
NHWD	kg	3.81E+0	0	0	8.12E-2	0	0	0	1.12E-1	0	0	0	0	0	0	3.62E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 47

Product: **Sikafloor® Resoclad MRW Type II**

Application: **industrial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.05E+1	4.19E+0	2.10E-1	1.23E-1	0	1.16E+0	0	4.65E+0	0	0	0	0	1.16E-1	6.61E-2	2.87E-3
AP	kg SO_2 eq.	4.98E-2	1.85E-2	1.43E-3	4.25E-4	0	6.40E-3	0	2.24E-2	0	0	0	0	6.67E-4	5.53E-6	2.30E-6
EP	kg N eq.	3.99E-2	9.46E-3	2.99E-4	1.28E-3	0	8.53E-3	0	1.99E-2	0	0	0	0	9.55E-5	1.22E-5	3.10E-4
SFP	kg O_3 eq.	1.12E+0	2.31E-1	3.83E-2	1.34E-1	0	5.84E-2	0	6.42E-1	0	0	0	0	1.83E-2	1.66E-4	5.30E-5
ODP	kg CFC-11 eq.	9.07E-7	2.63E-7	5.04E-8	7.21E-9	0	6.14E-8	0	4.97E-7	0	0	0	0	2.80E-8	5.80E-11	9.86E-11
Resource use																
$NRPR_E$	MJ	1.27E+2	4.96E+1	3.20E+0	1.13E+0	0	1.83E+1	0	5.29E+1	0	0	0	0	1.67E+0	5.19E-3	4.28E-1
$NRPR_M$	kg	1.18E+0	6.91E-1	0	1.38E-2	0	0	0	4.76E-1	0	0	0	0	0	0	0
RPR_E	MJ	1.42E+1	3.26E+0	4.57E-2	7.50E-2	0	6.26E+0	0	4.49E+0	0	0	0	0	7.86E-3	1.61E-4	1.10E-2
RPR_M	kg	7.65E-1	4.80E-1	0	9.60E-3	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.15E+2	4.35E+1	3.15E+0	9.97E-1	0	1.65E+1	0	4.85E+1	0	0	0	0	1.66E+0	5.06E-3	4.22E-1
$ADP_{fossil,M}$	kg	1.18E+0	6.91E-1	0	1.38E-2	0	0	0	4.76E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m³	2.62E-1	7.57E-2	6.54E-4	1.62E-3	0	1.28E-1	0	5.51E-2	0	0	0	0	2.06E-4	4.98E-6	4.74E-4
Waste*																
HWD	kg	3.70E-2	1.86E-2	0	3.73E-4	0	0	0	1.80E-2	0	0	0	0	0	0	0
NHWD	kg	2.94E+0	0	0	8.12E-2	0	0	0	6.74E-2	0	0	0	0	0	0	2.79E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 48

Product: **Sikafloor® Smooth Epoxy**

Application: **commercial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.54E+1	3.74E+0	1.54E-1	7.92E-2	0	1.16E+0	0	9.95E+0	0	0	0	0	1.74E-1	9.88E-2	4.29E-3
AP	kg SO_2 eq.	8.21E-2	1.92E-2	1.04E-3	4.13E-4	0	6.40E-3	0	5.40E-2	0	0	0	0	9.97E-4	8.26E-6	3.43E-6
EP	kg N eq.	6.02E-2	1.41E-2	2.19E-4	2.91E-4	0	8.53E-3	0	3.64E-2	0	0	0	0	1.43E-4	1.82E-5	4.63E-4
SFP	kg O_3 eq.	1.40E+0	2.14E-1	2.78E-2	1.35E-1	0	5.84E-2	0	9.37E-1	0	0	0	0	2.73E-2	2.48E-4	7.91E-5
ODP	kg CFC-11 eq.	2.06E-6	5.06E-7	3.67E-8	1.11E-8	0	6.14E-8	0	1.40E-6	0	0	0	0	4.18E-8	8.67E-11	1.47E-10
Resource use																
$NRPR_E$	MJ	1.89E+2	4.49E+1	2.34E+0	9.66E-1	0	1.83E+1	0	1.19E+2	0	0	0	0	2.50E+0	7.76E-3	6.40E-1
$NRPR_M$	kg	2.52E+0	6.95E-1	0	1.39E-2	0	0	0	1.81E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.01E+1	3.79E+0	3.36E-2	7.89E-2	0	6.26E+0	0	9.93E+0	0	0	0	0	1.17E-2	2.40E-4	1.64E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.71E+2	4.06E+1	2.30E+0	8.76E-1	0	1.65E+1	0	1.08E+2	0	0	0	0	2.48E+0	7.56E-3	6.30E-1
$ADP_{fossil,M}$	kg	2.52E+0	6.95E-1	0	1.39E-2	0	0	0	1.81E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.47E-1	5.91E-2	4.79E-4	1.20E-3	0	1.28E-1	0	1.57E-1	0	0	0	0	3.07E-4	7.44E-6	7.08E-4
Waste*																
HWD	kg	5.14E-2	1.44E-2	0	2.87E-4	0	0	0	3.68E-2	0	0	0	0	0	0	0
NHWD	kg	4.25E+0	0	0	2.72E-2	0	0	0	5.48E-2	0	0	0	0	0	0	4.17E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 49

Product: **Sikafloor® Smooth Epoxy**

Application: **commercial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	1.13E+1	3.74E+0	1.54E-1	7.92E-2	0	1.16E+0	0	5.97E+0	0	0	0	0	1.28E-1	7.30E-2	3.17E-3
AP	kg SO_2 eq.	6.03E-2	1.92E-2	1.04E-3	4.13E-4	0	6.40E-3	0	3.24E-2	0	0	0	0	7.37E-4	6.10E-6	2.54E-6
EP	kg N eq.	4.55E-2	1.41E-2	2.19E-4	2.91E-4	0	8.53E-3	0	2.18E-2	0	0	0	0	1.05E-4	1.35E-5	3.42E-4
SFP	kg O_3 eq.	1.02E+0	2.14E-1	2.78E-2	1.35E-1	0	5.84E-2	0	5.62E-1	0	0	0	0	2.02E-2	1.83E-4	5.85E-5
ODP	kg CFC-11 eq.	1.49E-6	5.06E-7	3.67E-8	1.11E-8	0	6.14E-8	0	8.40E-7	0	0	0	0	3.09E-8	6.40E-11	1.09E-10
Resource use																
$NRPR_E$	MJ	1.40E+2	4.49E+1	2.34E+0	9.66E-1	0	1.83E+1	0	7.15E+1	0	0	0	0	1.84E+0	5.73E-3	4.73E-1
$NRPR_M$	kg	1.80E+0	6.95E-1	0	1.39E-2	0	0	0	1.09E+0	0	0	0	0	0	0	0
RPR_E	MJ	1.61E+1	3.79E+0	3.36E-2	7.89E-2	0	6.26E+0	0	5.96E+0	0	0	0	0	8.68E-3	1.77E-4	1.21E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	1.27E+2	4.06E+1	2.30E+0	8.76E-1	0	1.65E+1	0	6.47E+1	0	0	0	0	1.83E+0	5.59E-3	4.66E-1
$ADP_{fossil,M}$	kg	1.80E+0	6.95E-1	0	1.39E-2	0	0	0	1.09E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	2.84E-1	5.91E-2	4.79E-4	1.20E-3	0	1.28E-1	0	9.44E-2	0	0	0	0	2.27E-4	5.50E-6	5.23E-4
Waste*																
HWD	kg	3.67E-2	1.44E-2	0	2.87E-4	0	0	0	2.21E-2	0	0	0	0	0	0	0
NHWD	kg	3.14E+0	0	0	2.72E-2	0	0	0	3.29E-2	0	0	0	0	0	0	3.08E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 50

Product: **Sikafloor® Smooth Epoxy**

Application: **industrial**

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

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

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.75E+1	3.74E+0	1.54E-1	7.92E-2	0	1.16E+0	0	2.19E+1	0	0	0	0	3.01E-1	1.71E-1	7.44E-3
AP	kg SO_2 eq.	1.48E-1	1.92E-2	1.04E-3	4.13E-4	0	6.40E-3	0	1.19E-1	0	0	0	0	1.73E-3	1.43E-5	5.95E-6
EP	kg N eq.	1.04E-1	1.41E-2	2.19E-4	2.91E-4	0	8.53E-3	0	8.00E-2	0	0	0	0	2.47E-4	3.16E-5	8.03E-4
SFP	kg O_3 eq.	2.55E+0	2.14E-1	2.78E-2	1.35E-1	0	5.84E-2	0	2.06E+0	0	0	0	0	4.73E-2	4.29E-4	1.37E-4
ODP	kg CFC-11 eq.	3.77E-6	5.06E-7	3.67E-8	1.11E-8	0	6.14E-8	0	3.08E-6	0	0	0	0	7.24E-8	1.50E-10	2.55E-10
Resource use																
$NRPR_E$	MJ	3.34E+2	4.49E+1	2.34E+0	9.66E-1	0	1.83E+1	0	2.62E+2	0	0	0	0	4.32E+0	1.34E-2	1.11E+0
$NRPR_M$	kg	4.69E+0	6.95E-1	0	1.39E-2	0	0	0	3.99E+0	0	0	0	0	0	0	0
RPR_E	MJ	3.21E+1	3.79E+0	3.36E-2	7.89E-2	0	6.26E+0	0	2.19E+1	0	0	0	0	2.04E-2	4.16E-4	2.85E-2
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.03E+2	4.06E+1	2.30E+0	8.76E-1	0	1.65E+1	0	2.37E+2	0	0	0	0	4.30E+0	1.31E-2	1.09E+0
$ADP_{fossil,M}$	kg	4.69E+0	6.95E-1	0	1.39E-2	0	0	0	3.99E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.37E-1	5.91E-2	4.79E-4	1.20E-3	0	1.28E-1	0	3.46E-1	0	0	0	0	5.33E-4	1.29E-5	1.23E-3
Waste*																
HWD	kg	9.56E-2	1.44E-2	0	2.87E-4	0	0	0	8.10E-2	0	0	0	0	0	0	0
NHWD	kg	7.38E+0	0	0	2.72E-2	0	0	0	1.20E-1	0	0	0	0	0	0	7.23E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 51

Product: **Sikafloor® Terrazzo**

Application: **commercial**

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

Estimated market service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.90E+1	2.58E+1	9.09E-1	5.49E-1	0	1.16E+0	0	4.79E-1	0	0	0	0	6.88E-2	3.91E-2	1.70E-3
AP	kg SO_2 eq.	1.54E-1	1.35E-1	6.14E-3	2.90E-3	0	6.40E-3	0	2.67E-3	0	0	0	0	3.95E-4	3.27E-6	1.36E-6
EP	kg N eq.	1.19E-1	1.05E-1	1.29E-3	2.21E-3	0	8.53E-3	0	1.85E-3	0	0	0	0	5.65E-5	7.22E-6	1.84E-4
SFP	kg O_3 eq.	2.69E+0	1.48E+0	1.65E-1	8.66E-1	0	5.84E-2	0	1.13E-1	0	0	0	0	1.08E-2	9.81E-5	3.13E-5
ODP	kg CFC-11 eq.	3.68E-6	3.26E-6	2.17E-7	7.24E-8	0	6.14E-8	0	4.80E-8	0	0	0	0	1.66E-8	3.43E-11	5.84E-11
Resource use																
$NRPR_E$	MJ	3.39E+2	2.96E+2	1.38E+1	6.41E+0	0	1.83E+1	0	3.42E+0	0	0	0	0	9.89E-1	3.07E-3	2.54E-1
$NRPR_M$	kg	4.50E+0	4.28E+0	0	8.56E-2	0	0	0	1.36E-1	0	0	0	0	0	0	0
RPR_E	MJ	3.02E+1	2.28E+1	1.98E-1	4.85E-1	0	6.26E+0	0	4.42E-1	0	0	0	0	4.65E-3	9.51E-5	6.51E-3
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.08E+2	2.67E+2	1.36E+1	5.81E+0	0	1.65E+1	0	2.98E+0	0	0	0	0	9.82E-1	3.00E-3	2.50E-1
$ADP_{fossil,M}$	kg	4.50E+0	4.28E+0	0	8.56E-2	0	0	0	1.36E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.95E-1	3.50E-1	2.83E-3	7.18E-3	0	1.28E-1	0	6.94E-3	0	0	0	0	1.22E-4	2.95E-6	2.80E-4
Waste*																
HWD	kg	8.57E-2	8.23E-2	0	1.65E-3	0	0	0	1.75E-3	0	0	0	0	0	0	0
NHWD	kg	1.93E+0	0	0	2.72E-1	0	0	0	4.63E-3	0	0	0	0	0	0	1.65E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 52

Product: **Sikafloor® Terrazzo**

Application: **commercial**

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

Estimated technical service life: **60 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.85E+1	2.58E+1	9.09E-1	5.49E-1	0	1.16E+0	0	0	0	0	0	0	6.36E-2	3.62E-2	1.57E-3
AP	kg SO_2 eq.	1.51E-1	1.35E-1	6.14E-3	2.90E-3	0	6.40E-3	0	0	0	0	0	0	3.65E-4	3.02E-6	1.26E-6
EP	kg N eq.	1.17E-1	1.05E-1	1.29E-3	2.21E-3	0	8.53E-3	0	0	0	0	0	0	5.22E-5	6.67E-6	1.70E-4
SFP	kg O_3 eq.	2.58E+0	1.48E+0	1.65E-1	8.66E-1	0	5.84E-2	0	0	0	0	0	0	9.99E-3	9.06E-5	2.90E-5
ODP	kg CFC-11 eq.	3.63E-6	3.26E-6	2.17E-7	7.24E-8	0	6.14E-8	0	0	0	0	0	0	1.53E-8	3.17E-11	5.39E-11
Resource use																
$NRPR_E$	MJ	3.36E+2	2.96E+2	1.38E+1	6.41E+0	0	1.83E+1	0	0	0	0	0	0	9.13E-1	2.84E-3	2.34E-1
$NRPR_M$	kg	4.37E+0	4.28E+0	0	8.56E-2	0	0	0	0	0	0	0	0	0	0	0
RPR_E	MJ	2.98E+1	2.28E+1	1.98E-1	4.85E-1	0	6.26E+0	0	0	0	0	0	0	4.30E-3	8.79E-5	6.02E-3
RPR_M	kg	2.75E-1	0	0	0	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.05E+2	2.67E+2	1.36E+1	5.81E+0	0	1.65E+1	0	0	0	0	0	0	9.07E-1	2.77E-3	2.31E-1
$ADP_{fossil,M}$	kg	4.37E+0	4.28E+0	0	8.56E-2	0	0	0	0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.88E-1	3.50E-1	2.83E-3	7.18E-3	0	1.28E-1	0	0	0	0	0	0	1.12E-4	2.73E-6	2.59E-4
Waste*																
HWD	kg	8.39E-2	8.23E-2	0	1.65E-3	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	1.80E+0	0	0	2.72E-1	0	0	0	0	0	0	0	0	0	0	1.53E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 53

Product: **Sikafloor®-52 PC Grey**

Application: **commercial and industrial**

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

Estimated market and technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.75E+1	1.49E+1	4.21E+0	4.01E-1	0	1.16E+0	0	6.23E+0	0	0	0	0	4.78E-1	1.36E-1	1.77E-2
AP	kg SO_2 eq.	1.16E-1	5.17E-2	2.83E-2	1.66E-3	0	6.40E-3	0	2.57E-2	0	0	0	0	2.74E-3	1.14E-5	1.42E-5
EP	kg N eq.	5.85E-2	2.99E-2	6.02E-3	9.89E-4	0	8.53E-3	0	1.08E-2	0	0	0	0	3.92E-4	2.51E-5	1.91E-3
SFP	kg O_3 eq.	2.33E+0	8.15E-1	7.57E-1	9.71E-2	0	5.84E-2	0	5.29E-1	0	0	0	0	7.51E-2	3.40E-4	3.26E-4
ODP	kg CFC-11 eq.	3.16E-6	1.23E-6	1.00E-6	4.63E-8	0	6.14E-8	0	7.05E-7	0	0	0	0	1.15E-7	1.19E-10	6.08E-10
Resource use																
$NRPR_E$	MJ	2.80E+2	1.24E+2	6.40E+1	4.01E+0	0	1.83E+1	0	6.13E+1	0	0	0	0	6.86E+0	1.07E-2	1.77E+0
$NRPR_M$	kg	1.80E+0	1.29E+0	0	2.59E-2	0	0	0	4.78E-1	0	0	0	0	0	0	0
RPR_E	MJ	2.98E+1	1.65E+1	9.23E-1	4.51E-1	0	6.26E+0	0	5.59E+0	0	0	0	0	3.23E-2	3.30E-4	4.57E-2
RPR_M	kg	4.52E-1	1.30E-1	0	2.61E-3	0	2.75E-1	0	4.43E-2	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.67E+2	1.17E+2	6.29E+1	3.74E+0	0	1.65E+1	0	5.86E+1	0	0	0	0	6.82E+0	1.04E-2	1.75E+0
$ADP_{fossil,M}$	kg	1.80E+0	1.29E+0	0	2.59E-2	0	0	0	4.78E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.76E-1	1.64E-1	1.31E-2	9.40E-3	0	1.28E-1	0	5.79E-2	0	0	0	0	8.45E-4	1.02E-5	1.96E-3
Waste*																
HWD	kg	6.27E-3	6.15E-3	0	1.23E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	1.20E+1	2.79E-1	0	1.01E-1	0	0	0	1.31E-1	0	0	0	0	0	0	1.15E+1
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 54

Product: **Sikafloor®-52 PC Grey**

Application: **commercial**

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

Estimated technical service life: **60 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.08E+1	1.49E+1	4.21E+0	4.01E-1	0	1.16E+0	0	0	0	0	0	0	6.36E-2	1.81E-2	2.35E-3
AP	kg SO_2 eq.	8.84E-2	5.17E-2	2.83E-2	1.66E-3	0	6.40E-3	0	0	0	0	0	0	3.65E-4	1.51E-6	1.88E-6
EP	kg N eq.	4.57E-2	2.99E-2	6.02E-3	9.89E-4	0	8.53E-3	0	0	0	0	0	0	5.22E-5	3.33E-6	2.54E-4
SFP	kg O_3 eq.	1.74E+0	8.15E-1	7.57E-1	9.71E-2	0	5.84E-2	0	0	0	0	0	0	9.99E-3	4.53E-5	4.34E-5
ODP	kg CFC-11 eq.	2.35E-6	1.23E-6	1.00E-6	4.63E-8	0	6.14E-8	0	0	0	0	0	0	1.53E-8	1.59E-11	8.08E-11
Resource use																
$NRPR_E$	MJ	2.11E+2	1.24E+2	6.40E+1	4.01E+0	0	1.83E+1	0	0	0	0	0	0	9.13E-1	1.42E-3	2.36E-1
$NRPR_M$	kg	1.32E+0	1.29E+0	0	2.59E-2	0	0	0	0	0	0	0	0	0	0	0
RPR_E	MJ	2.41E+1	1.65E+1	9.23E-1	4.51E-1	0	6.26E+0	0	0	0	0	0	0	4.30E-3	4.39E-5	6.08E-3
RPR_M	kg	4.08E-1	1.30E-1	0	2.61E-3	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.01E+2	1.17E+2	6.29E+1	3.74E+0	0	1.65E+1	0	0	0	0	0	0	9.07E-1	1.38E-3	2.33E-1
$ADP_{fossil,M}$	kg	1.32E+0	1.29E+0	0	2.59E-2	0	0	0	0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m³	3.15E-1	1.64E-1	1.31E-2	9.40E-3	0	1.28E-1	0	0	0	0	0	0	1.12E-4	1.36E-6	2.61E-4
Waste*																
HWD	kg	6.27E-3	6.15E-3	0	1.23E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	1.91E+0	2.79E-1	0	1.01E-1	0	0	0	0	0	0	0	0	0	0	1.53E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 55

Product: **Sikafloor®-52 PC Grey**

Application: **industrial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	3.43E+1	1.49E+1	4.21E+0	4.01E-1	0	1.16E+0	0	1.25E+1	0	0	0	0	8.76E-1	2.49E-1	3.25E-2
AP	kg SO_2 eq.	1.45E-1	5.17E-2	2.83E-2	1.66E-3	0	6.40E-3	0	5.14E-2	0	0	0	0	5.03E-3	2.08E-5	2.59E-5
EP	kg N eq.	7.12E-2	2.99E-2	6.02E-3	9.89E-4	0	8.53E-3	0	2.15E-2	0	0	0	0	7.19E-4	4.59E-5	3.50E-3
SFP	kg O_3 eq.	2.92E+0	8.15E-1	7.57E-1	9.71E-2	0	5.84E-2	0	1.06E+0	0	0	0	0	1.38E-1	6.24E-4	5.98E-4
ODP	kg CFC-11 eq.	3.96E-6	1.23E-6	1.00E-6	4.63E-8	0	6.14E-8	0	1.41E-6	0	0	0	0	2.11E-7	2.18E-10	1.11E-9
Resource use																
$NRPR_E$	MJ	3.48E+2	1.24E+2	6.40E+1	4.01E+0	0	1.83E+1	0	1.23E+2	0	0	0	0	1.26E+1	1.96E-2	3.25E+0
$NRPR_M$	kg	2.28E+0	1.29E+0	0	2.59E-2	0	0	0	9.57E-1	0	0	0	0	0	0	0
RPR_E	MJ	3.55E+1	1.65E+1	9.23E-1	4.51E-1	0	6.26E+0	0	1.12E+1	0	0	0	0	5.92E-2	6.05E-4	8.37E-2
RPR_M	kg	4.97E-1	1.30E-1	0	2.61E-3	0	2.75E-1	0	8.87E-2	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.33E+2	1.17E+2	6.29E+1	3.74E+0	0	1.65E+1	0	1.17E+2	0	0	0	0	1.25E+1	1.91E-2	3.20E+0
$ADP_{fossil,M}$	kg	2.28E+0	1.29E+0	0	2.59E-2	0	0	0	9.57E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	4.36E-1	1.64E-1	1.31E-2	9.40E-3	0	1.28E-1	0	1.16E-1	0	0	0	0	1.55E-3	1.88E-5	3.60E-3
Waste*																
HWD	kg	6.27E-3	6.15E-3	0	1.23E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	2.18E+1	2.79E-1	0	1.01E-1	0	0	0	2.62E-1	0	0	0	0	0	0	2.11E+1
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 56

Product: **Sikafloor®-53 PC White**

Application: **commercial and industrial**

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

Estimated market and technical service life: **30 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	3.03E+1	1.69E+1	4.21E+0	4.41E-1	0	1.16E+0	0	6.92E+0	0	0	0	0	4.78E-1	1.36E-1	1.77E-2
AP	kg SO_2 eq.	1.36E-1	6.62E-2	2.83E-2	1.95E-3	0	6.40E-3	0	3.06E-2	0	0	0	0	2.74E-3	1.14E-5	1.42E-5
EP	kg N eq.	6.33E-2	3.34E-2	6.02E-3	1.06E-3	0	8.53E-3	0	1.20E-2	0	0	0	0	3.92E-4	2.51E-5	1.91E-3
SFP	kg O_3 eq.	2.77E+0	1.14E+0	7.57E-1	1.04E-1	0	5.84E-2	0	6.38E-1	0	0	0	0	7.51E-2	3.40E-4	3.26E-4
ODP	kg CFC-11 eq.	3.67E-6	1.60E-6	1.00E-6	5.37E-8	0	6.14E-8	0	8.32E-7	0	0	0	0	1.15E-7	1.19E-10	6.08E-10
Resource use																
$NRPR_E$	MJ	3.18E+2	1.52E+2	6.40E+1	4.57E+0	0	1.83E+1	0	7.07E+1	0	0	0	0	6.86E+0	1.07E-2	1.77E+0
$NRPR_M$	kg	1.90E+0	1.37E+0	0	2.73E-2	0	0	0	5.03E-1	0	0	0	0	0	0	0
RPR_E	MJ	3.07E+1	1.71E+1	9.23E-1	4.64E-1	0	6.26E+0	0	5.81E+0	0	0	0	0	3.23E-2	3.30E-4	4.57E-2
RPR_M	kg	4.52E-1	1.30E-1	0	2.61E-3	0	2.75E-1	0	4.43E-2	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.04E+2	1.44E+2	6.29E+1	4.29E+0	0	1.65E+1	0	6.79E+1	0	0	0	0	6.82E+0	1.04E-2	1.75E+0
$ADP_{fossil,M}$	kg	1.90E+0	1.37E+0	0	2.73E-2	0	0	0	5.03E-1	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.87E-1	1.73E-1	1.31E-2	9.56E-3	0	1.28E-1	0	6.06E-2	0	0	0	0	8.45E-4	1.02E-5	1.96E-3
Waste*																
HWD	kg	6.27E-3	6.15E-3	0	1.23E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	1.20E+1	2.79E-1	0	1.01E-1	0	0	0	1.31E-1	0	0	0	0	0	0	1.15E+1
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 57

Product: **Sikafloor®-53 PC White**

Application: **commercial**

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

Estimated technical service life: **60 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.28E+1	1.69E+1	4.21E+0	4.41E-1	0	1.16E+0	0	0	0	0	0	0	6.36E-2	1.81E-2	2.35E-3
AP	kg SO_2 eq.	1.03E-1	6.62E-2	2.83E-2	1.95E-3	0	6.40E-3	0	0	0	0	0	0	3.65E-4	1.51E-6	1.88E-6
EP	kg N eq.	4.93E-2	3.34E-2	6.02E-3	1.06E-3	0	8.53E-3	0	0	0	0	0	0	5.22E-5	3.33E-6	2.54E-4
SFP	kg O_3 eq.	2.07E+0	1.14E+0	7.57E-1	1.04E-1	0	5.84E-2	0	0	0	0	0	0	9.99E-3	4.53E-5	4.34E-5
ODP	kg CFC-11 eq.	2.74E-6	1.60E-6	1.00E-6	5.37E-8	0	6.14E-8	0	0	0	0	0	0	1.53E-8	1.59E-11	8.08E-11
Resource use																
$NRPR_E$	MJ	2.40E+2	1.52E+2	6.40E+1	4.57E+0	0	1.83E+1	0	0	0	0	0	0	9.13E-1	1.42E-3	2.36E-1
$NRPR_M$	kg	1.39E+0	1.37E+0	0	2.73E-2	0	0	0	0	0	0	0	0	0	0	0
RPR_E	MJ	2.48E+1	1.71E+1	9.23E-1	4.64E-1	0	6.26E+0	0	0	0	0	0	0	4.30E-3	4.39E-5	6.08E-3
RPR_M	kg	4.08E-1	1.30E-1	0	2.61E-3	0	2.75E-1	0	0	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.29E+2	1.44E+2	6.29E+1	4.29E+0	0	1.65E+1	0	0	0	0	0	0	9.07E-1	1.38E-3	2.33E-1
$ADP_{fossil,M}$	kg	1.39E+0	1.37E+0	0	2.73E-2	0	0	0	0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	3.24E-1	1.73E-1	1.31E-2	9.56E-3	0	1.28E-1	0	0	0	0	0	0	1.12E-4	1.36E-6	2.61E-4
Waste*																
HWD	kg	6.27E-3	6.15E-3	0	1.23E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	1.91E+0	2.79E-1	0	1.01E-1	0	0	0	0	0	0	0	0	0	0	1.53E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 58

Product: **Sikafloor®-53 PC White**

Application: **industrial**

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

Estimated market service life: **20 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	3.77E+1	1.69E+1	4.21E+0	4.41E-1	0	1.16E+0	0	1.38E+1	0	0	0	0	8.76E-1	2.49E-1	3.25E-2
AP	kg SO_2 eq.	1.69E-1	6.62E-2	2.83E-2	1.95E-3	0	6.40E-3	0	6.13E-2	0	0	0	0	5.03E-3	2.08E-5	2.59E-5
EP	kg N eq.	7.72E-2	3.34E-2	6.02E-3	1.06E-3	0	8.53E-3	0	2.39E-2	0	0	0	0	7.19E-4	4.59E-5	3.50E-3
SFP	kg O_3 eq.	3.47E+0	1.14E+0	7.57E-1	1.04E-1	0	5.84E-2	0	1.28E+0	0	0	0	0	1.38E-1	6.24E-4	5.98E-4
ODP	kg CFC-11 eq.	4.60E-6	1.60E-6	1.00E-6	5.37E-8	0	6.14E-8	0	1.66E-6	0	0	0	0	2.11E-7	2.18E-10	1.11E-9
Resource use																
$NRPR_E$	MJ	3.96E+2	1.52E+2	6.40E+1	4.57E+0	0	1.83E+1	0	1.41E+2	0	0	0	0	1.26E+1	1.96E-2	3.25E+0
$NRPR_M$	kg	2.40E+0	1.37E+0	0	2.73E-2	0	0	0	1.01E+0	0	0	0	0	0	0	0
RPR_E	MJ	3.66E+1	1.71E+1	9.23E-1	4.64E-1	0	6.26E+0	0	1.16E+1	0	0	0	0	5.92E-2	6.05E-4	8.37E-2
RPR_M	kg	4.97E-1	1.30E-1	0	2.61E-3	0	2.75E-1	0	8.87E-2	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.80E+2	1.44E+2	6.29E+1	4.29E+0	0	1.65E+1	0	1.36E+2	0	0	0	0	1.25E+1	1.91E-2	3.20E+0
$ADP_{fossil,M}$	kg	2.40E+0	1.37E+0	0	2.73E-2	0	0	0	1.01E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m³	4.50E-1	1.73E-1	1.31E-2	9.56E-3	0	1.28E-1	0	1.21E-1	0	0	0	0	1.55E-3	1.88E-5	3.60E-3
Waste*																
HWD	kg	6.27E-3	6.15E-3	0	1.23E-4	0	0	0	0	0	0	0	0	0	0	0
NHWD	kg	2.18E+1	2.79E-1	0	1.01E-1	0	0	0	2.62E-1	0	0	0	0	0	0	2.11E+1
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

Note: "E±Y" means "× $10^{\pm Y}$". 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 59

Product: **Sikalastic®-3900 Traffic Coating System**

Application: **commercial**

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

Estimated market service life: **10 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	3.21E+1	7.75E+0	3.19E-1	1.98E-1	0	1.16E+0	0	2.22E+1	0	0	0	0	2.73E-1	1.55E-1	6.74E-3
AP	kg SO_2 eq.	1.56E-1	3.59E-2	2.16E-3	7.96E-4	0	6.40E-3	0	1.09E-1	0	0	0	0	1.56E-3	1.30E-5	5.38E-6
EP	kg N eq.	9.27E-2	1.91E-2	4.54E-4	1.48E-3	0	8.53E-3	0	6.21E-2	0	0	0	0	2.24E-4	2.86E-5	7.27E-4
SFP	kg O_3 eq.	2.36E+0	4.39E-1	5.82E-2	1.09E-1	0	5.84E-2	0	1.65E+0	0	0	0	0	4.28E-2	3.88E-4	1.24E-4
ODP	kg CFC-11 eq.	2.83E-6	6.10E-7	7.64E-8	1.50E-8	0	6.14E-8	0	2.00E-6	0	0	0	0	6.56E-8	1.36E-10	2.31E-10
Resource use																
$NRPR_E$	MJ	4.18E+2	9.79E+1	4.86E+0	2.16E+0	0	1.83E+1	0	2.89E+2	0	0	0	0	3.92E+0	1.22E-2	1.00E+0
$NRPR_M$	kg	5.97E+0	1.55E+0	0	3.10E-2	0	0	0	4.39E+0	0	0	0	0	0	0	0
RPR_E	MJ	3.36E+1	6.58E+0	6.95E-2	1.46E-1	0	6.26E+0	0	2.05E+1	0	0	0	0	1.84E-2	3.77E-4	2.58E-2
RPR_M	kg	1.65E+0	5.57E-1	0	1.11E-2	0	2.75E-1	0	8.07E-1	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	3.72E+2	8.65E+1	4.78E+0	1.91E+0	0	1.65E+1	0	2.57E+2	0	0	0	0	3.89E+0	1.19E-2	9.89E-1
$ADP_{fossil,M}$	kg	5.96E+0	1.55E+0	0	3.10E-2	0	0	0	4.38E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	6.62E-1	1.41E-1	9.94E-4	2.96E-3	0	1.28E-1	0	3.87E-1	0	0	0	0	4.82E-4	1.17E-5	1.11E-3
Waste*																
HWD	kg	9.88E-2	2.84E-2	0	5.68E-4	0	0	0	6.99E-2	0	0	0	0	0	0	0
NHWD	kg	6.94E+0	0	0	1.18E-1	0	0	0	2.79E-1	0	0	0	0	0	0	6.55E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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Table 60

Product: **Sikalastic®-3900 Traffic Coating System**

Application: **commercial**

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

Estimated technical service life: **15 years**

Indicators	Units	Total	A1-3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4
Environmental indicators																
GWP	kg CO_2 eq.	2.31E+1	7.75E+0	3.19E-1	1.98E-1	0	1.16E+0	0	1.33E+1	0	0	0	0	1.87E-1	1.06E-1	4.61E-3
AP	kg SO_2 eq.	1.12E-1	3.59E-2	2.16E-3	7.96E-4	0	6.40E-3	0	6.57E-2	0	0	0	0	1.07E-3	8.87E-6	3.68E-6
EP	kg N eq.	6.75E-2	1.91E-2	4.54E-4	1.48E-3	0	8.53E-3	0	3.73E-2	0	0	0	0	1.53E-4	1.96E-5	4.98E-4
SFP	kg O_3 eq.	1.68E+0	4.39E-1	5.82E-2	1.09E-1	0	5.84E-2	0	9.90E-1	0	0	0	0	2.93E-2	2.66E-4	8.50E-5
ODP	kg CFC-11 eq.	2.01E-6	6.10E-7	7.64E-8	1.50E-8	0	6.14E-8	0	1.20E-6	0	0	0	0	4.49E-8	9.31E-11	1.58E-10
Resource use																
$NRPR_E$	MJ	3.00E+2	9.79E+1	4.86E+0	2.16E+0	0	1.83E+1	0	1.74E+2	0	0	0	0	2.68E+0	8.33E-3	6.87E-1
$NRPR_M$	kg	4.21E+0	1.55E+0	0	3.10E-2	0	0	0	2.63E+0	0	0	0	0	0	0	0
RPR_E	MJ	2.54E+1	6.58E+0	6.95E-2	1.46E-1	0	6.26E+0	0	1.23E+1	0	0	0	0	1.26E-2	2.58E-4	1.77E-2
RPR_M	kg	1.33E+0	5.57E-1	0	1.11E-2	0	2.75E-1	0	4.84E-1	0	0	0	0	0	0	0
RE_{DWPS}	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ADP_{fossil,E}$	MJ	2.68E+2	8.65E+1	4.78E+0	1.91E+0	0	1.65E+1	0	1.54E+2	0	0	0	0	2.66E+0	8.12E-3	6.77E-1
$ADP_{fossil,M}$	kg	4.21E+0	1.55E+0	0	3.10E-2	0	0	0	2.63E+0	0	0	0	0	0	0	0
SM	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m^3	5.07E-1	1.41E-1	9.94E-4	2.96E-3	0	1.28E-1	0	2.32E-1	0	0	0	0	3.30E-4	7.99E-6	7.60E-4
Waste*																
HWD	kg	7.09E-2	2.84E-2	0	5.68E-4	0	0	0	4.19E-2	0	0	0	0	0	0	0
NHWD	kg	4.76E+0	0	0	1.18E-1	0	0	0	1.67E-1	0	0	0	0	0	0	4.48E+0
HLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLRW	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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*	*Transport*
RE_{DWPS}	*Recovered energy from disposal of waste in previous systems*	*A4*	*Transport to site*	*C3*	*Waste processing*
$ADP_{fossil,E}$	*Abiotic depletion potential for fossil resources used as energy*	*A5*	*Installation*	*C4*	*Disposal*
$ADP_{fossil,M}$	*Abiotic depletion potential for fossil resources used as materials*				

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

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4.6. Life cycle impact assessment – interpretation

Sikafloor® Smooth Epoxy (10-yr commercial market service life)

The interpretation of the Sikafloor® Smooth Epoxy system results (Table 48) 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.

Potential environmental impact indicators

As observed in Figure 3 for the resinous floor system, the **replacement module (B4)** is the main contributors to most indicators (60 % to 68 % of all impact indicators). This is due mainly to the raw materials needed to manufacture the five recoats over 60 years, especially the **epoxy resin**. After the recoats, **raw material supply** of the first system (A1), mainly epoxy resin, and **maintenance[2] (B2)** contribute between 10 % and 20 % and between 3 % and 14 % of impact indicators, respectively. The production of **cleaning agent** (non-ionic surfactant) is the source of impacts during maintenance. All other modules are less significant, including Sika's operations. An exception is the smog formation indicator, which is related to VOC emissions. For this indicator, the **installation (A5)** is similar in contribution to A1 and B2 due to the VOC content emission related to the first floor coating system, as it is taken into account during recoating (B4).

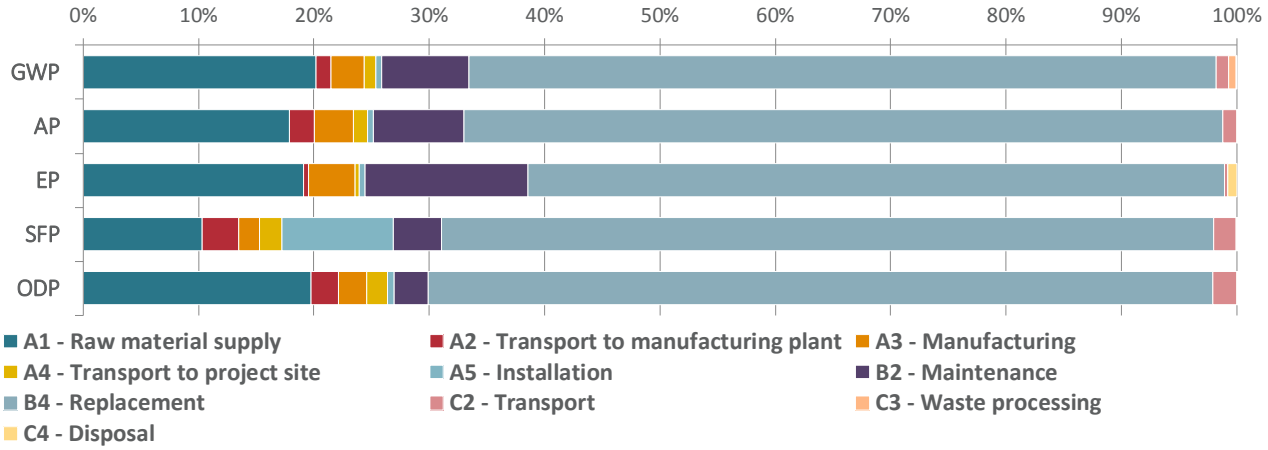

Figure 3: Relative contribution of life cycle modules to potential environmental impacts for 1 m² of Sikafloor® Smooth Epoxy (average coverage, 10-yr commercial market service life)[3]

Use of resources indicators (total primary energy consumption and material resources consumption)

For these indicators except renewable primary energy as material, **recoats (B4)** and **raw material supply (A1)** for the installation of the initial system account together for between 61 % and 99 % for the indicators.

For the fresh water and the renewable primary energy indicators, the second most important module after recoating is **maintenance (B2)** for cleaning. Renewable primary energy as material is used exclusively during maintenance because of the surfactant partly produced from plants.

Waste generation indicators

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 applied recoats and all unused coating over the 60-year period. A small amount of hazardous waste is generated by the **manufacturing (A3).**

[2] Cleaning was modelled according to the PCR for resinous floor coatings and is the same for all systems, although floor coating systems have different cleaning needs.

[3] Modules B1, B3, B5, B6, B7 and C1 are null.

Sikafloor® NA PurCem® (20-yr industrial market service life)

The interpretation of the Sikafloor® NA PurCem® results (Table 35) 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.

Potential environmental impact indicators

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 **raw material supply (A1)** for the initial system are significant, accounting for between 22 % and 59 % of the life cycle, compared to the recoats (B4). The raw material contributing the most to A1 for the global warming indicator is the methylene diphenyl diisocyanate (MDI), a precursor of polyurethane. After the A1 module, the remaining modules of the production stage, that is to say **transport of raw materials** (A2), **manufacturing** (A3), and **transport to the project site** (A4), contribute together to between 18 % and 59 % of the total over the life cycle. This important contribution is due to the material intensity per square meter of the system due to its thickness.

The production of **cleaning agent**[4] (non-ionic surfactant) is the source of impacts during maintenance, which is significant for one indicator.

The PurCem system uses mainly low-VOC components. Therefore, the **installation (A5)** and the **recoats (B4)** account for only 17 % of the Smog formation indicator.

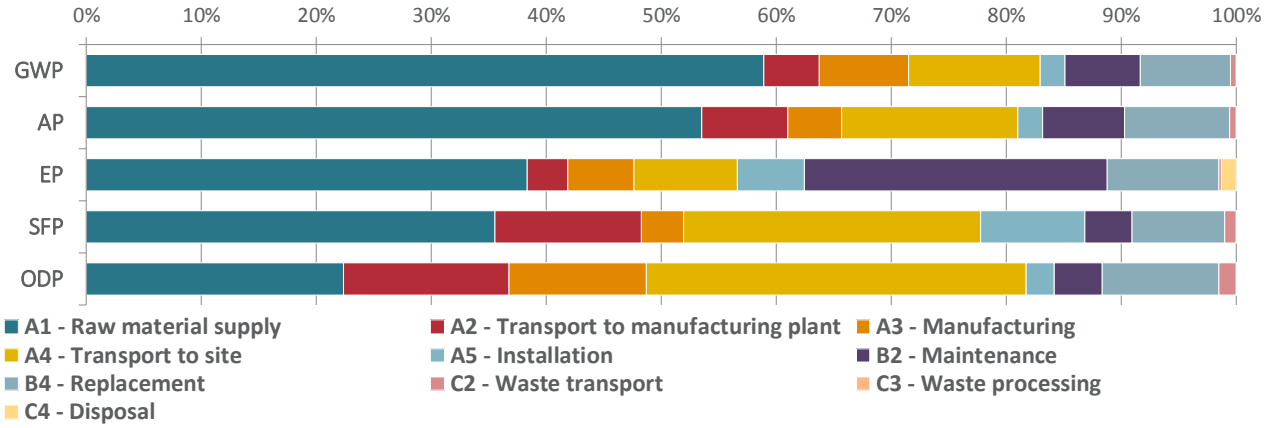

Figure 4: Relative contribution of life cycle modules to potential environmental impacts for 1 m² of Sikafloor® NA PurCem® (average coverage, 20-yr industrial market service life)[5]

Use of resources indicators (total primary energy consumption and material resources consumption)

The **material use** indicators are dominated by the **A1 module** (57 % - 77 %). For **energy use** indicators, the contribution of A1 goes down between 34 % and 53 % since energy is consumed in many other modules. **Manufacturing** (A3) consumes significant renewable primary energy because of the hydroelectricity consumed at the Quebec and the B.C. plants. **Fresh water** is mostly consumed during **raw material supply (A1)** and **maintenance (B2).**

Waste generation indicators

Most waste disposed is attributed to the **C4 module, the end of life**, and is classified as non-hazardous. It includes the initial applied system, all applied recoats and all unused coating over the 60-yr period. A small amount of hazardous waste is generated by the **manufacturing (A3).**

[4] Cleaning was modelled according to the PCR for resinous floor coatings and is the same for all systems, although floor coating systems have different cleaning needs.
[5] Modules B1, B3, B5, B6, B7 and C1 are null.

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.

Sika's Commitment to sustainability

Providing long lasting and high-performance solutions to the benefit of our customers, Sika is committed to pioneering sustainable solutions that are safer, have the lowest impact on resources and address global environmental challenges. Therefore, Sika assumes the responsibility to provide sustainable solutions in order to improve material, water and energy efficiency in construction and transportation. Sika strives to create more value for all its stakeholders with its products, systems and solutions along the whole value chain and throughout the entire life span of its products. 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.

With the aim of enhancing utility and reducing impacts, the company continues to work on its six strategic target areas, namely economic performance, sustainable solutions, local communities/society, energy, waste/water, and occupational safety. Year after year, Sika honors its responsibility through reporting its performance in a sustainability report in line with the highest standards, the Global Reporting Initiative (GRI). More particularly, the implementation of life-cycle thinking throughout all phases from product development to the use of the products by customers marks Sika's goal to move away from being a mere product supplier to a provider of innovative solutions which enhances the efficiency, durability, and aesthetic appeal of buildings, infrastructure, and installations.

VOC content

System components covered by this EPD contain between 0 and 200 grams of VOC per litre, which is in conformity with national standards and LEED requirements (see Table 61 for detailed VOC content per component). The VOC content was measured according to EPA 24 or ASTM D2369 standard methods.

Table 61: VOC content of components

Components	VOC content (g/L)
Quartz aggregate (generic)	Not available. Not expected to contain VOCs.
Scofield® Formula One™ Guard-W	< 100
Scofield® Formula One™ Liquid Dye Concentrate	< 11
Scofield® Formula One™ Lithium Densifier MP	0
Sika® MT Primer	≤ 50
Sikafloor® Aggregate PT	Not available. Not expected to contain VOCs.
Sikafloor® Comfort Adhesive	0
Sikafloor® Comfort Porefiller	0
Sikafloor® Comfort Regupol-6015H	0
Sikafloor® DecoFlake®	0
Sikafloor® Duochem-305	195-200
Sikafloor® Duochem-6001	99
Sikafloor® Duochem-9200	1
Sikafloor® Duochem-9205	1
Sikafloor® Fastflor® CR	≤ 5

Components	VOC content (g/L)
Sikafloor® Terrazzo	≤ 50
Sikafloor® Trowel Quartz Aggregate	Not available. Not expected to contain VOCs.
Sikafloor®-156^{CA}	≤ 25
Sikafloor®-1610	≤ 50
Sikafloor®-2002	≤ 25
Sikafloor®-217	~ 56
Sikafloor®-22 NA PurCem®	≤ 5
Sikafloor®-222 W ESD	~ 1
Sikafloor®-260 ESD	≤ 15
Sikafloor®-261^{CA}	< 50
Sikafloor®-270 ESD	≤ 25
Sikafloor®-304 W NA	69
Sikafloor®-305 W NA	30
Sikafloor®-31 NA PurCem®	≤ 10
Sikafloor®-33 NA PurCem®	≤ 10
Sikafloor®-330	10
Sikafloor®-52 PC Grey	0
Sikafloor®-53 PC White	0
Sikalastic®-120 FS Primer	45
Sikalastic®-220 FS	< 20
Sikalastic®-390 Membrane	3
Sikalastic®-391 N	14

Waste packaging management

Sika Canada 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 their material (paper, plastic and metal). Ask information to 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
$ADP_{fossil,M}$	Abiotic depletion potential for fossil resources used as 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 CO_2 eq.	Kilogram of carbon dioxide equivalent
kg N eq.	Kilogram of nitrogen equivalent
kg O_3 eq.	Kilogram of ozone equivalent
kg SO_2 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
m^2	Square meter
m^3	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
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 SO_2 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 SO_2 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 **(m^3 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 CO_2 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 (O_3), 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 of 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 O_3 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)**.

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