

DESCO

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH ISO 14025 AND ISO 21930-2017

DESCO SERIES 500



Date of Issue: November 24, 2025

Expiration: November 24, 2030

Date of Issue

Expiration date

Last updated

Last update: November 25, 2025

Refer to the EPD Library at www.smartepd.com for the latest EPD listing information



General Information

Desco Coatings

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Product Name:	Desco 500
Functional Unit:	1 m2 of covered and protected flooring surface for a period of 60 years
Declaration Number:	SmartEPD-2025-096-0668-01.1
Date of Issue:	November 24, 2025
Expiration:	November 24, 2030
Last updated:	November 24, 2025
EPD Scope:	Cradle to grave A1 - A3, A4, A5, B1 - B7, C1 - C4, D
Market(s) of Applicability:	North America

General Organization Information

Since 1959, DESCO Coatings has built upon a history of field experience and industry knowledge in order to continually provide our customers with the best solutions. We're proud to offer the highest quality technical surfacing system applications, including solutions for seamless, decorative floor systems that offer superior wear, chemical, impact and abrasion resistance.

Further information can be found at: www.descocoatings.com

Limitations, Liability, and Ownership

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.

Reference Standards

Standard(s):	ISO 14025 and ISO 21930:2017
PCR:	NSF PCR for Resinous Floor Coatings Date of issue: December 17, 2018 Valid until: December 31, 2025
PCR review panel:	 Contact Smart EPD for more information.
General Program Instructions:	 Smart EPD General Program Instructions v.2.0, March 2025

Verification Information

LCA Author/Creator:	 Samuel Fafel  samuel@parqhq.com	
EPD Program Operator:	 Smart EPD  info@smartepd.com  www.smartepd.com  585 Grove St., Ste. 145, Herndon, VA 20170, USA	
Verification:	Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071:  Mari Kirss  mari.kirss@meetripuu.ee	External
	Independent external verification of EPD, according to ISO 14025 and reference PCR(s):  Anna Lasso  Smart EPD  anna.lasso@smartepd.com	External

Product Information

Functional Unit:	1 m2 of covered and protected flooring surface for a period of 60 years
Mass:	0.19 kg
Reference Service Life:	5 Years
Product Specificity:	 Product Average  Product Specific

Product Description

DESCO SERIES 500 is a 100% solids epoxy clear primer for concrete, wood, and masonry surfaces. Combining tolerance with damp surfaces and good wetting properties, DESCO SERIES 500 is the ideal primer for almost every Desco Flooring/Coating System. The dampness tolerance of DESCO SERIES 500 allows it to be applied to damp concrete after surface preparation. It may also be used as an adhesive for bonding divider strips to the substrate. In addition, the low modulus of elasticity and stress relieving properties of DESCO SERIES 500 makes it ideal for use as a binder resin for epoxy mortar patching and grouting applications.

Further information can be found at: www.descocoatings.com/products

Product Specifications

Product SKU(s):
Series 500

Product Classification Codes:	EC3 - Finishes -> Flooring -> OtherFlooring
Coating Type:	Thin mil floor coating
Options:	✓ Industrial
Estimated market service life:	5 years
Estimated technical service life:	5 years

Material Composition

Material/Component Category	Origin	% Mass
Catalyst	US	< 10
UV absorber	US	< 10
additives	US	< 10
curing agent	US	20 - 31
diluent	US	9 - 14
plasticizer	US	< 10
resin	US	45 - 67

Packaging Material	Origin	kg Mass
Plastic pail product		0.01
Steel pail packaging		0.01

Hazardous Materials
4-Nonylphenol (84852-15-3)
Benzyl alcohol (100-51-6)
Bisphenol A (80-05-7)
Bisphenol A Polyglycidyl Ether Resin (25068-38-6)
Butyl acetate (123-86-4)
Diethylenetriamine (111-40-0)
Nonylphenol (25154-52-3)
Petroleum distillates (64742-47-8)
Tetraethylene pentamine (112-57-2)
Tris(dimethylaminomethyl)phenol (90-72-2)

EPD Data Specificity

Primary Data Year:	Jun 1, 2024 - May 31, 2025
Manufacturing Specificity:	✗ Industry Average
	✓ Manufacturer Average
	✗ Facility Specific

Averaging:
Results come from the average of products of the same composition and properties that are manufactured at different facilities. A weighted average of production volume at each facility has been utilized for calculation purposes.

System Boundary

Production	A1	Raw material supply	✓
	A2	Transport	✓
	A3	Manufacturing	✓
Construction	A4	Transport to site	✓
	A5	Assembly / Install	✓
Use	B1	Use	✓
	B2	Maintenance	✓
	B3	Repair	✓
	B4	Replacement	✓
	B5	Refurbishment	✓
	B6	Operational Energy Use	✓
	B7	Operational Water Use	✓
End of Life	C1	Deconstruction	✓
	C2	Transport	✓
	C3	Waste Processing	✓
	C4	Disposal	✓
Benefits & Loads Beyond System Boundary	D	Recycling, Reuse Recovery Potential	✓

Note:

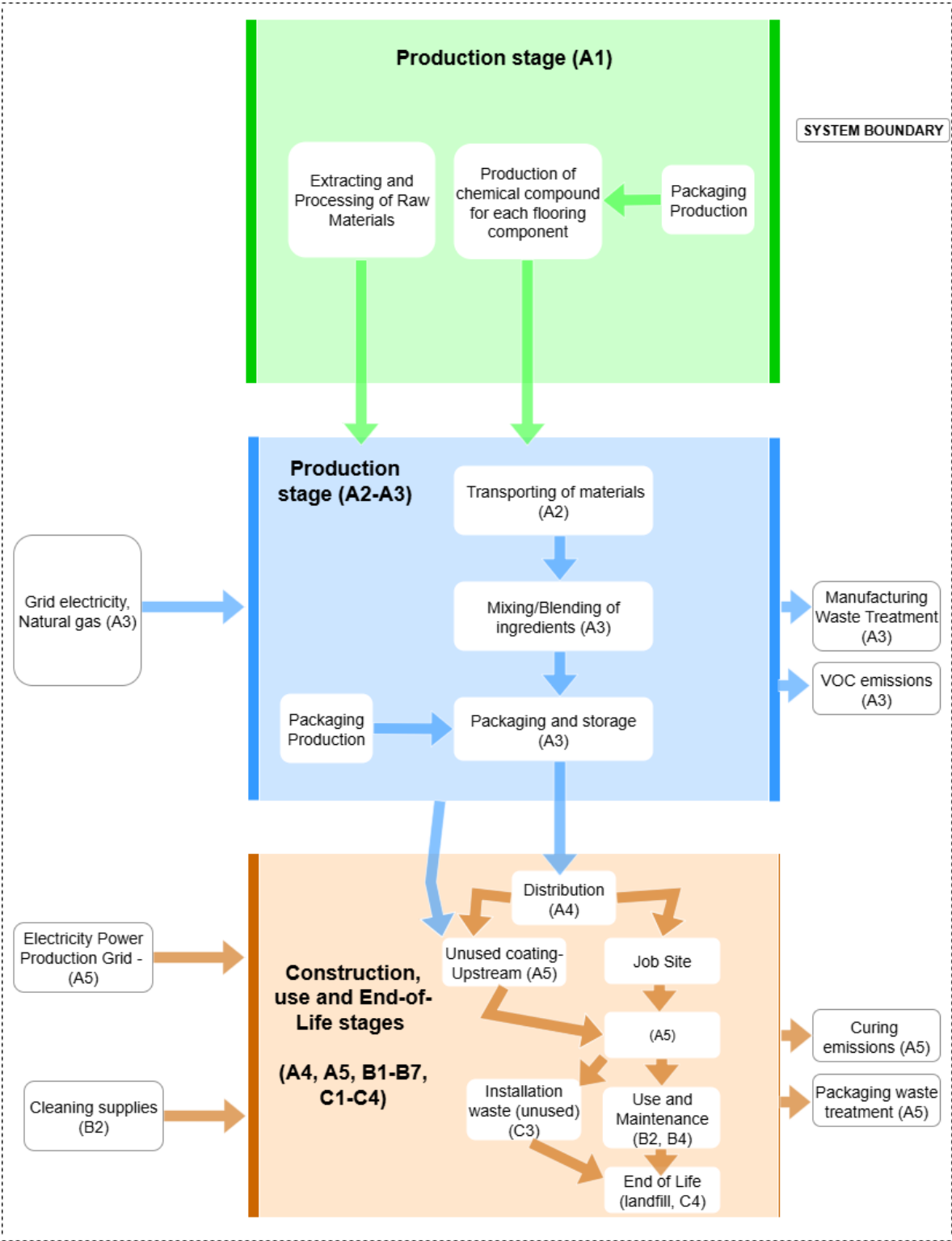
ND = Module not declared

Plants

 Batavia, OH
4050 Clough Woods Drive, Batavia, OH 45103

 Phoenix, AZ
4330 N 43rd Ave, Phoenix, AZ 85031

Product Flow Diagram



Software and Database

LCA Software:	 SimaPro v. 9.5
LCI Foreground Database(s):	 Ecoinvent v. 3.9.1  Cut-off by Classification
LCI Background Database(s):	 Ecoinvent v. 3.9.1  Cut-off by Classification

A foreground LCI database is the database used to model the primary, site-specific data collected for this EPD. A background LCI database is the database used to model generic or non-specific data.

Data Quality

The quality of inventory data is evaluated based on several criteria, including precision, completeness, consistency, and representativeness. The analysis follows the data quality level and criteria of the UN Environment Global Guidance on LCA database development. Based on these factors, the overall data quality is rated as "Good".

Precision and completeness:

- Precision (Very Good): The inventory data used in this study were either directly measured, calculated, or estimated based on primary data sources, ensuring high precision. Background data from Ecoinvent v3.9.1 database also has documented precision to the extent available.
- Completeness (Very Good): The product system's mass balance and inventory completeness were thoroughly checked. Some exclusions were made in line with the PCR requirements, such as personnel impacts, R&D activities, business travel, secondary packaging, point of sale infrastructure, and the coating applicator. However, no data was intentionally omitted.

Consistency and reproducibility:

- Consistency (Good): Primary data were collected with a similar level of detail, while background data primarily came from the Ecoinvent database, with other databases used only if necessary or more representative. The modeling approach and other methodological choices were applied consistently throughout the model.
- Reproducibility (Very Good): This study ensures reproducibility by providing comprehensive disclosure of input-output data, dataset choices, and modeling approaches. A knowledgeable third party should be able to approximate the results using the same data and modeling methods.

Representativeness:

- Temporal (Good): Primary data were collected for the totality of the reference study period to ensure the representativeness. Secondary data from the Ecoinvent v3.9.1 database is typically representative of recent years, a detailed data quality analysis following ISO 21930 was performed on the background database and is available at request.
- Geographical (Good): Primary data represents Desco's production facilities in Batavia, OH, and Phoenix, AZ. Regional differences in electric grid mix were considered using appropriate secondary data. Country-specific data ensures high geographical representativeness, with proxy data used only when necessary.
- Technological (Good): Both primary and secondary data were tailored to the specific technologies studied, ensuring high technological representativeness.

Life Cycle Module Descriptions

The production stage (A1-A3) starts with the reception of raw materials, typically in the form of chemical packages (cans, plastic pails, plastic drums, supersacks, bags, etc). Next, the raw materials are mixed to form resins and additives. Non-hazardous waste, consisting mainly of packaging waste materials, is sent for disposal, incineration, and/or recycling. Hazardous waste consists of manufacturing product losses. The construction stage (A4-A5) starts with the packaged and finished coating leaving the production site and ends with the finished coating being installed/applied and cured onto the flooring substrate at the site. Impacts include VOC emissions from curing, product packaging disposal, and upstream production stage impacts associated with the ~2% of the wet mass of the coating that remains unused. The use stage (B1-B7) begins after the resinous floor coating has fully cured after installation and continues until the product reaches its end-of-life stage. Impacts include all cleaning and necessary recoating events during the service lifetime. End-of-life (C1-C4) was modeled according to PCR descriptions. Product at the end of life is sent to landfill. Unused solvent-based coatings are incinerated for energy recovery and water-based coatings are sent to landfill. Finally, impacts beyond system boundaries (Module D) include energy received from unused product incineration (C3) and the recycling of packaging materials (A5).

Service Lifetime

Regarding the Service Lifetime listed under the sections of Product Information, Production Specification and Replacement (B4), please be aware that this product is not applied as a stand-alone flooring product. It is a part of a multi-component resinous flooring system. The service life is based on typical flooring systems selected from several general categories by referring to the PCR, including the following examples: thin-film coating, slurry, or mortar. Service life is also based on the flooring application type, e.g., commercial versus industrial.

LCA Discussion

Allocation Procedure

Allocation of co-products was avoided, to the extent it was possible, based on the guidance given in ISO 14044:2006, 4.3., in ISO 21930:2017. Energy use, water consumption, wastewater treatment and VOC emissions at the Batavia, OH and Phoenix, AZ facilities were allocated by mass. Solid waste was estimated using packaging masses and material losses and allocated following the polluter pays principle.

Cut-off Procedure

The system boundary was defined based on relevance to the goal of the study. For the raw material (A1) and process related inputs (A3), all available energy and material flow data have been included in the model. Exclusions allowed by the PCR such as secondary and tertiary packaging, were implemented.

Renewable Electricity

Energy Attribute Certificates (EACs) such as Renewable Energy Certificates (RECs) or Power Purchase Agreements (PPAs) are included in the baseline reported results:

✗ No

Scenarios

Maintenance (B2)

B2 Module

Maintenance Cycle:	18.33 Cycles/RSL 220 Cycles/ESL
Net Fresh Water Consumption Specified by Water Source and Fate:	0.83 m3
Ancillary Materials Specified by Type:	1.32 kg
Maintenance Process Information:	As per the PCR, "220 cleaning events shall be reported in module B2 of the LCA and subsequent EPD". The cleaning solution contains 2.5% of a nonionic surfactant.

Replacement (B4)

B4 Module

Reference Service Life:	5 Years
Replacement Cycle:	11 (ESL/RSL)-1
Replacement of Worn Parts:	2.09 kg
Further assumptions for scenario development:	Values assume market service life

End of Life (C1 - C4)
C1 - C4 Modules

Collection Process

Collected Separately:	0.0456 kg
Collected with Mixed Construction Waste:	0.1862 kg

Recovery

Landfill:	0.19 kg
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Assumptions for scenario development:

According to the ecoinvent 3.9.1 process “treatment of waste paint,” the incineration of unused product achieves a gross thermal efficiency of 74.4% and a gross electrical efficiency of 10%.



Results

Environmental Impact Assessment Results

IPCC AR5 GWP 100, TRACI 2.1
per 1 m2 of product of covered and protected flooring surface for a period of 60 years.
LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

Market service lifetime

Impact Category	Method	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	IPCC AR5 GWP 100	kg CO2-eq	1.11e+0	3.50e-2	1.19e-1	0	6.14e+0	0	1.39e+1	0	0	0	0	7.87e-3	1.65e-1	4.63e-1	-4.55e-1
ODP	TRACI 2.1	kg CFC-11 eq	8.24e-6	6.01e-10	1.65e-7	0	1.85e-7	0	9.25e-5	0	0	0	0	1.35e-10	1.13e-9	1.27e-8	-9.36e-9
AP	TRACI 2.1	kg SO2 eq	4.11e-3	1.12e-4	1.05e-4	0	2.34e-2	0	4.76e-2	0	0	0	0	2.51e-5	1.08e-4	1.60e-3	-1.54e-3
EP	TRACI 2.1	kg N eq	4.24e-3	3.09e-5	1.08e-4	0	2.87e-2	0	4.81e-2	0	0	0	0	6.93e-6	7.00e-5	1.60e-3	-1.41e-3
POCP	TRACI 2.1	kg O3 eq	5.57e-2	2.56e-3	1.79e-3	0	3.24e-1	0	6.61e-1	0	0	0	0	5.75e-4	1.42e-3	2.60e-2	-2.45e-2

Note:
Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:
GWP = Global Warming Potential, 100 years (may also be denoted as GWP-total, GWP-fossil (fossil fuels), GWP-biogenic (biogenic sources), GWP-luluc (land use and land use change)), ODP = Ozone Depletion Potential, AP = Acidification Potential, EP = Eutrophication Potential, SFP = Smog Formation Potential, POCP = Photochemical oxidant creation potential, ADP-Fossil = Abiotic depletion potential for fossil resources, ADP-Minerals&Metals = Abiotic depletion potential for non-fossil resources, WDP = Water deprivation potential, PM = Particular Matter Emissions, IRP = Ionizing radiation, human health, ETP-fw = Eco-toxicity (freshwater), HTP-c = Human toxicity (cancer), HTP-nc = Human toxicity (non-cancer), SQP = Soil quality index.

The estimated service life under this scenario is 5.0 years.



per 1 m2 of product of covered and protected flooring surface for a period of 60 years.

Technical service lifetime

Impact Category	Method	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	IPCC AR5 GWP 100	kg CO2-eq	1.11e+0	3.50e-2	1.19e-1	0	6.14e+0	0	1.39e+1	0	0	0	0	7.87e-3	1.65e-1	4.63e-1	-4.55e-1
ODP	TRACI 2.1	kg CFC-11 eq	8.24e-6	6.01e-10	1.65e-7	0	1.85e-7	0	9.25e-5	0	0	0	0	1.35e-10	1.13e-9	1.27e-8	-9.36e-9
AP	TRACI 2.1	kg SO2 eq	4.11e-3	1.12e-4	1.05e-4	0	2.34e-2	0	4.76e-2	0	0	0	0	2.51e-5	1.08e-4	1.60e-3	-1.54e-3
EP	TRACI 2.1	kg N eq	4.24e-3	3.09e-5	1.08e-4	0	2.87e-2	0	4.81e-2	0	0	0	0	6.93e-6	7.00e-5	1.60e-3	-1.41e-3
POCP	TRACI 2.1	kg O3 eq	5.57e-2	2.56e-3	1.79e-3	0	3.24e-1	0	6.61e-1	0	0	0	0	5.75e-4	1.42e-3	2.60e-2	-2.45e-2
Note: Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements. Abbreviations: GWP = Global Warming Potential, 100 years (may also be denoted as GWP-total, GWP-fossil (fossil fuels), GWP-biogenic (biogenic sources), GWP-luluc (land use and land use change)), ODP = Ozone Depletion Potential, AP = Acidification Potential, EP = Eutrophication Potential, SFP = Smog Formation Potential, POCP = Photochemical oxidant creation potential, ADP-Fossil = Abiotic depletion potential for fossil resources, ADP-Minerals&Metals = Abiotic depletion potential for non-fossil resources, WDP = Water deprivation potential, PM = Particular Matter Emissions, IRP = Ionizing radiation, human health, ETP-fw = Eco-toxicity (freshwater), HTP-c = Human toxicity (cancer), HTP-nc = Human toxicity (non-cancer), SQP = Soil quality index.																	

The estimated service life under this scenario is 5.0 years.

Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase when product performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit basis before any comparison is attempted.

Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or are missing relevant environmental impacts. Such comparison can be inaccurate, and could lead to erroneous selection of materials or products which are higher-impact, at least in some impact categories.



Resource Use Indicators

per 1 m2 of product of covered and protected flooring surface for a period of 60 years.

Market service lifetime

Indicator	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
RPRE	MJ	8.48e-1	6.45e-3	1.78e-2	0	5.33e+1	0	9.59e+0	0	0	0	0	1.45e-3	4.35e-3	1.81e+0	-3.59e-1
RPRM	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RPRT	MJ	8.48e-1	6.45e-3	1.78e-2	0	5.33e+1	0	9.59e+0	0	0	0	0	1.45e-3	4.35e-3	1.81e+0	-3.59e-1
NRPRE	MJ	1.65e+1	5.09e-1	3.60e-1	0	8.81e+1	0	1.91e+2	0	0	0	0	1.14e-1	7.40e-1	5.17e+0	-5.44e+0
NRPRM	MJ	4.25e+0	0	8.50e-2	0	0	0	4.77e+1	0	0	0	0	0	0	0	-2.62e-1
NRPRT	MJ	2.50e+1	5.09e-1	5.30e-1	0	8.81e+1	0	2.87e+2	0	0	0	0	1.14e-1	7.40e-1	5.17e+0	-5.96e+0
ADPF	MJ	2.51e+0	7.15e-2	5.40e-2	0	1.03e+1	0	2.90e+1	0	0	0	0	1.60e-2	1.10e-1	3.18e-1	-4.72e-1
FW	m3	1.41e-2	6.65e-5	4.22e-4	0	1.07e+0	0	1.61e-1	0	0	0	0	1.49e-5	7.32e-5	2.23e-3	-1.90e-3
RE	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
RSF	MJ	0	0	0	0	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

Note:

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:

RPRE or PERE = Renewable primary resources used as energy carrier (fuel), RPRM or PERM = Renewable primary resources with energy content used as material, RPRT or PERT = Total use of renewable primary resources with energy content, NRPRE or PENRE = Non-renewable primary resources used as an energy carrier (fuel), NRPRM or PENRM = Non-renewable primary resources with energy content used as material, NRPRT or PENRT = Total non-renewable primary resources with energy content, SM = Secondary materials, RSF = Renewable secondary fuels, NRSF = Non-renewable secondary fuels, RE = Recovered energy, ADPF = Abiotic depletion potential, FW = Use of net freshwater resources, VOCs = Volatile Organic Compounds.

The estimated service life under this scenario is 5.0 years.



per 1 m2 of product of covered and protected flooring surface for a period of 60 years.

Technical service lifetime

Indicator	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
RPRE	MJ	8.48e-1	6.45e-3	1.78e-2	0	5.33e+1	0	9.59e+0	0	0	0	0	1.45e-3	4.35e-3	1.81e+0	-3.59e-1
RPRM	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RPRT	MJ	8.48e-1	6.45e-3	1.78e-2	0	5.33e+1	0	9.59e+0	0	0	0	0	1.45e-3	4.35e-3	1.81e+0	-3.59e-1
NRPRE	MJ	1.65e+1	5.09e-1	3.60e-1	0	8.81e+1	0	1.91e+2	0	0	0	0	1.14e-1	7.40e-1	5.17e+0	-5.44e+0
NRPRM	MJ	4.25e+0	0	8.50e-2	0	0	0	4.77e+1	0	0	0	0	0	0	0	-2.62e-1
NRPRT	MJ	2.50e+1	5.09e-1	5.30e-1	0	8.81e+1	0	2.87e+2	0	0	0	0	1.14e-1	7.40e-1	5.17e+0	-5.96e+0
ADPF	MJ	2.51e+0	7.15e-2	5.40e-2	0	1.03e+1	0	2.90e+1	0	0	0	0	1.60e-2	1.10e-1	3.18e-1	-4.72e-1
FW	m3	1.41e-2	6.65e-5	4.22e-4	0	1.07e+0	0	1.61e-1	0	0	0	0	1.49e-5	7.32e-5	2.23e-3	-1.90e-3
RE	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
RSF	MJ	0	0	0	0	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

Note:

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:

RPRE or PERE = Renewable primary resources used as energy carrier (fuel), RPRM or PERM = Renewable primary resources with energy content used as material, RPRT or PERT = Total use of renewable primary resources with energy content, NRPRE or PENRE = Non-renewable primary resources used as an energy carrier (fuel), NRPRM or PENRM = Non-renewable primary resources with energy content used as material, NRPRT or PENRT = Total non-renewable primary resources with energy content, SM = Secondary materials, RSF = Renewable secondary fuels, NRSF = Non-renewable secondary fuels, RE = Recovered energy, ADPF = Abiotic depletion potential, FW = Use of net freshwater resources, VOCs = Volatile Organic Compounds.

The estimated service life under this scenario is 5.0 years.



Waste and Output Flow Indicators

per 1 m2 of product of covered and protected flooring surface for a period of 60 years.

Market service lifetime

Indicator	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	3.36e-4	0	6.73e-6	0	0	0	3.77e-3	0	0	0	0	0	4.56e-2	2.28e+0	0
NHWD	kg	8.16e-3	0	1.03e-2	0	0	0	2.03e-1	0	0	0	0	0	0	0	0
MR	kg	1.07e-2	0	5.86e-3	0	0	0	1.82e-1	0	0	0	0	0	0	0	0
MER	kg	1.92e-5	0	1.32e-3	0	0	0	1.47e-2	0	0	0	0	0	0	0	0
ILLRW	m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HLLRW	m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	5.92e-4	0	4.06e-2	0	0	0	4.53e-1	0	0	0	0	0	1.40e+0	0	0

Note:
Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:
HWD = Hazardous waste disposed, NHWD = Non-hazardous waste disposed, RWD = Radioactive waste disposed, HLRW = High-level radioactive waste, ILLRW = Intermediate- and low-level radioactive waste, CRU = Components for re-use, MFR or MR = Materials for recycling, MER = Materials for energy recovery, MNER = Materials for incineration, no energy recovery, EE or EEE = Recovered energy exported from the product system, EET = Exported thermal energy.

The estimated service life under this scenario is 5.0 years.

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 and are for informational purposes only. As such, no decisions regarding actual cradle-grave waste performance between products should be derived from these reported values.



per 1 m2 of product of covered and protected flooring surface for a period of 60 years.

Technical service lifetime

Indicator	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	3.36e-4	0	6.73e-6	0	0	0	3.77e-3	0	0	0	0	0	4.56e-2	2.28e+0	0
NHWD	kg	8.16e-3	0	1.03e-2	0	0	0	2.03e-1	0	0	0	0	0	0	0	0
MR	kg	1.07e-2	0	5.86e-3	0	0	0	1.82e-1	0	0	0	0	0	0	0	0
MER	kg	1.92e-5	0	1.32e-3	0	0	0	1.47e-2	0	0	0	0	0	0	0	0
ILLRW	m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HLLRW	m3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EE	MJ	5.92e-4	0	4.06e-2	0	0	0	4.53e-1	0	0	0	0	0	1.40e+0	0	0

Note:

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:

HWD = Hazardous waste disposed, NHWD = Non-hazardous waste disposed, RWD = Radioactive waste disposed, HLRW = High-level radioactive waste, ILLRW = Intermediate- and low-level radioactive waste, CRU = Components for re-use, MFR or MR = Materials for recycling, MER = Materials for energy recovery, MNER = Materials for incineration, no energy recovery, EE or EEE = Recovered energy exported from the product system, EET = Exported thermal energy.

The estimated service life under this scenario is 5.0 years.

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 and are for informational purposes only. As such, no decisions regarding actual cradle-grave waste performance between products should be derived from these reported values.



Carbon Emissions and Removals

per 1 m2 of product of covered and protected flooring surface for a period of 60 years.

Market service lifetime

Indicator	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Bio Carbon Removal from Product	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Emission from Product	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Removal from Packaging	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Emission from Packaging	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Emission from Waste during Manufacturing (re-newable source)	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calcination Carbon Removal	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonation Carbon Emission	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbon Emission from Waste during Manufacturing (non-renewable source)	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note:
Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:
BCRP = Biogenic Carbon Removal from Product, BCEP = Biogenic Carbon Emission from Product, BCRK = Biogenic Carbon Removal from Packaging, BCEK = Biogenic Carbon Emission from Packaging, BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes, CCE = Calcination Carbon Emissions, CCR = Carbonation Carbon Removals, CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources used in Production Processes, GWP-luc = Carbon Emissions from Land-use Change.

The estimated service life under this scenario is 5.0 years.



per 1 m2 of product of covered and protected flooring surface for a period of 60 years.

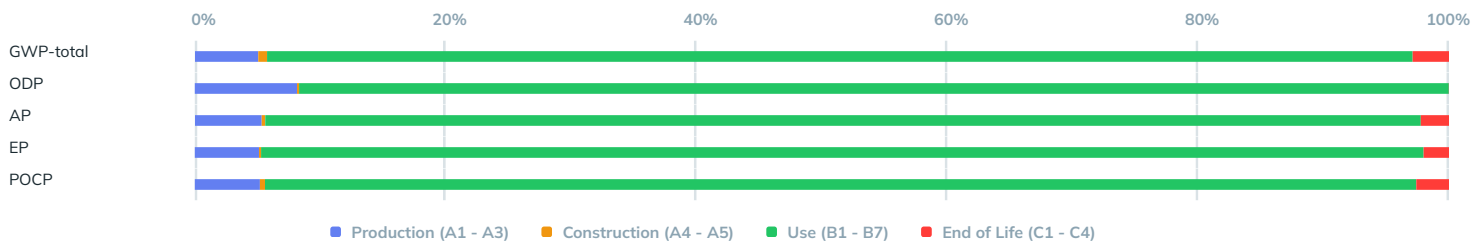
Technical service lifetime

Indicator	Unit	A1 - A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Bio Carbon Removal from Product	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Emission from Product	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Removal from Packaging	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Emission from Packaging	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio Carbon Emission from Waste during Manufacturing (renewable source)	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calcination Carbon Removal	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonation Carbon Emission	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbon Emission from Waste during Manufacturing (non-renewable source)	kg CO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Note: Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements. Abbreviations: BCRP = Biogenic Carbon Removal from Product, BCEP = Biogenic Carbon Emission from Product, BCRK = Biogenic Carbon Removal from Packaging, BCEK = Biogenic Carbon Emission from Packaging, BCEW = Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes, CCE = Calcination Carbon Emissions, CCR = Carbonation Carbon Removals, CWNR = Carbon Emissions from Combustion of Waste from Non-Renewable Sources used in Production Processes, GWP-luc = Carbon Emissions from Land-use Change.																

The estimated service life under this scenario is 5.0 years.

Interpretation

Raw materials are sourced from suppliers, transported to manufacturing facilities, and mixed to produce products. The product stage (A1-A3) drives the environmental impact, due to raw material production and energy use. This impact is amplified in the use phase due to recoatings, making B4 the largest contributor to the overall impact. Market and Technical service life scenarios differ depending on assumed estimated service life (ESL), with lower impacts for longer-lived products. Those scenarios are constructed using PCR prescriptions that are highly conservative, as they assumed the replacement of the full coating system. End-of-life impacts are relatively low, as products are assumed to be landfilled with building demolition waste. Switching to renewable energy is advised for products with high manufacturing energy demands. The manufacturer should explore lower-impact raw materials and work with suppliers using sustainable methods or renewable energy to enhance product sustainability.



Additional Environmental Information

None

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