

Environmental product declaration

In accordance with ISO 14025 and EN 15804 +A2

weber WX Waterproofing membrane (weber WX Vedeneriste)





Owner of the declaration: Saint-Gobain Finland Oy

Declared unit: 1 kg weber WX Waterproofing membrane (weber WX Vedeneriste)

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 009:2018 Part B for Technical - Chemical products in the building and construction industry **Program operator:** The Norwegian EPD Foundation

Declaration number:

NEPD-3969-3004-EN

Registration number:

NEPD-3969-3004-EN

Issue date: 02.12.2022

Valid to: 02.12.2027

EPD Software: LCA.no EPD generator

System ID: 54574

The Norwegian EPD Foundation



General information

Product

weber WX Waterproofing membrane (weber WX Vedeneriste)

Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway The Norwegian EPD Foundation Phone: +47 23 08 80 00 web: post@epd-norge.no

Declaration number: NEPD-3969-3004-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 009:2018 Part B for Technical - Chemical products in the building and construction industry

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 kg weber WX Waterproofing membrane (weber WX Vedeneriste) Declared unit with option:

A1-A3,A4,A5,C1,C2,C3,C4,D

Functional unit:

Functional unit is not used because use stage is not considered.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Individualthird party verification of each EPD is not required when the EPD tool is i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPDNorway, and iii) the process is reviewed annualy. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Anne Rønning, Norsus AS (no signature required)

Owner of the declaration:

Saint-Gobain Finland Oy Contact person: Anne Kaiser Phone: +358400289933 e-mail: anne.kaiser@saint-gobain.com

Manufacturer:

Saint-Gobain Finland Oy P.O. Box 70 , Fi-00381 Helsinki Finland

Place of production:

Scanspac Sala Norrängsgatan 35 , 73338 Sala Sweden

Management system:

ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007

Organisation no:

FI09515553

Issue date: 02.12.2022

Valid to: 02.12.2027

Year of study:

2021

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD:

Päivi Pesu

Reviewer of company-specific input data and EPD:

Helene Løvkvist Andersen

Approved:

Håkon Hauan

Managing Director of EPD-Norway



Product

Product description:

weber WX Waterproofing membrane is 1-component, ready-to-use waterproofing membrane for waterproofing wet rooms. It is suitable for wet rooms, such as bathrooms and laundry rooms, and sauna floor waterproofing. Not suitable for swimming pools or areas around the pools, unheated spaces or for waterproofing sauna walls or ceilings. Suitable substrates are stone-based surfaces, concrete and suitable boards. weberSmart work instructions 8-75 should be followed when waterproofing. Hand applied. Available in 15 L package. GTIN 06415910039127.

Product specification

The composition of the product is described in the following table. Weight of packaging materials is given for 1 kg of product.

Materials	
Dispersion	60-80%
Filler	10-30%
Additives	3-8%
Packaging, PP incl. 50% PCR	0,036kg
Packaging, metal (handle)	0,002kg
Packaging, PE	0,001kg
Packaging, cardboard	0,001kg
Packaging, pallet	0,050kg

Technical data:

weber WX Waterproofing membrane is part of weberSmart Waterproofing system which is VTT certified (VTT-C-12260-18).

Material consumption: 0,75 l/m² (membrane thickness 0,5 mm). The space details and substrate unevenness increases consumption significantly. Density: Specific gravity: 1,25 kg/l Minimum layer thickness: 0,5 mm.

More information: www.fi.weber/vedeneristyksen-ratkaisut-ja-tuotteet/nestemaiset-vedeneristeet-ja-epoksit/weber-wx-vedeneriste

Market:

Finland and Baltic countries

Reference service life, product

The reference service life of the product is similar to the service life of the building.

Reference service life, building

60 years

LCA: Calculation rules

Declared unit:

1 kg weber WX Waterproofing membrane (weber WX Vedeneriste)

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Additives	ecoinvent 3.6	Database	2019
Packaging	ecoinvent 3.6	Database	2019
Pigments	ecoinvent 3.6	Database	2019
Water	ecoinvent 3.6	Database	2019
Additives	ecoinvent 3.6	Database	2020



System boundaries (X=included, MND=module not declared, MNR=module not relevant)

I	Product	stage	instal	nstruction Istallation stage			Use stage					E	ind of lif	e stage		Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De- construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling- potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Х	Х	Х	Х	Х	MND	MND	MND	MND	MND	MND	MND	Х	Х	Х	Х	Х

System boundary:

All processes from raw material extraction to product transport to the building site, assembly as well as end of life stage and phases beyond the system boundary (A1-A5, C1-C4, D) are included in the analysis.

The production process comprises of mixing raw materials together. Ready mixed product is then packed into plastic pails with lid for delivery. Stage B is not considered. At the end-of-life stage the impact of the product in building deconstruction is considered to be minor, therefore no impact is calculated in C1. Default waste scenario from NPCR Part B Technical - Chemical products for building and construction industry is applied. Thus, at end-of-life, 10% of the product is collected for material recycling and 90% is disposed into landfill.

System boundaries (cradle-to-gate with options) are illustrated in the picture below.



Additional technical information:

The LCA calculation has been made taking into account the fact that during the manufacturing process 100% renewable electricity is used. This 100% renewable electricity bought is evidenced by Guarantee of Origin certificates (GOs) from LOS, valid for the study year (2021) and after.

Package contains 50% post-consumer recycled plastic, and can be recycled.



LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

The results of stage A4 (transportation of product) in the table of this EPD refer to transportation in Finland (average distance 2021). This product may also be delivered to the countries in the table "Additional A4 information". In order to adapt the impact of transportation to these countries, A4 figures from this EPD shall be multiplied by the multiplication factors below.

At installation stage, no additional accessory was taken into account. Material loss is considered to be 0.

Due to minor impact in deconstruction phase, C1 is set 0. Transportation distance to waste disposal is assumed to be 30 km. It is assumed that 90% of the product is disposed into landfill and 10% is collected and recycled.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 5 (km)	53,3 %	245	0,023	l/tkm	5,64
Ship, Freight, Transoceanic (km)	65,0 %	440	0,003	l/tkm	1,32
Additional A4 information	Unit/Range	Value			
Tallinn, Estonia (truck 317 km / ferry 528 km)	Multiplication factor GWP/A4	1,28			
Riga, Latvia (truck 587 km / ferry 528 km)	Multiplication factor GWP/A4	2,21			
Kaunas, Lithuania (truck 847 km / ferry 528 km)	Multiplication factor GWP/A4	3,11			
Assembly (A5)	Unit	Value			
Waste, cardboard and paper packaging, to average treatment (kg)	kg	0,00			
Waste, metal, to average treatment (kg)	kg	0,00			
Waste, plastic packaging, mixture, to average treatment (kg)	kg	0,04			
Waste, wood packaging, average treatment (kg)	kg	0,05			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 5 (km)	53,3 %	30	0,023	l/tkm	0,69
Waste processing (C3)	Unit	Value			
Waste treatment of product after demolition (kg)	kg/DU	0,10			
Disposal (C4)	Unit	Value			
Disposal of product in landfill (kg)	kg/DU	0,90			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary aggregates with crushed	kg/DU	0,10			

recycled inert products (kg)



LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Enviro	nmental impact									
	Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
P	GWP-total	kg CO ₂ -eq	2,27E+00	2,64E-02	4,33E-03	0	2,73E-03	7,20E-05	7,39E-03	-2,34E-04
P	GWP-fossil	kg CO ₂ -eq	2,33E+00	2,64E-02	4,32E-03	0	2,73E-03	7,10E-05	7,38E-03	-2,29E-04
P	GWP-biogenic	kg CO ₂ -eq	-6,13E-02	1,03E-05	6,99E-06	0	1,12E-06	6,13E-07	8,62E-06	-4,57E-06
P	GWP-luluc	kg CO ₂ -eq	1,39E-03	9,36E-06	5,84E-07	0	7,96E-07	9,83E-08	1,81E-06	-1,55E-07
Ò	ODP	kg CFC11 -eq	1,20E-07	6,03E-09	4,00E-10	0	6,30E-10	1,40E-11	2,80E-09	-4,20E-11
Ê	AP	mol H+ -eq	1,72E-02	2,28E-04	1,46E-05	0	1,15E-05	5,75E-07	6,57E-05	-2,06E-06
-	EP-FreshWater	kg P -eq	2,54E-05	1,87E-07	2,25E-08	0	2,08E-08	4,49E-09	8,37E-08	-6,09E-09
-	EP-Marine	kg N -eq	3,26E-03	6,12E-05	8,02E-06	0	3,45E-06	1,68E-07	2,44E-05	-7,15E-07
-	EP-Terrestial	mol N eq	3,40E-02	6,80E-04	6,34E-05	0	3,81E-05	1,94E-06	2,69E-04	-8,40E-06
	РОСР	kg NMVOC -eq	1,11E-02	1,96E-04	1,73E-05	0	1,23E-05	5,20E-07	7,71E-05	-2,22E-06
***	ADP-minerals&metals ¹	Kg Sb-eq	1,88E-05	4,11E-07	3,85E-08	0	4,66E-08	9,01E-10	6,65E-08	-2,03E-08
A	ADP-fossil ¹	MJ	6,07E+01	3,99E-01	2,85E-02	0	4,24E-02	2,21E-03	2,03E-01	-3,87E-03
%	WDP ¹	m ³	2,83E+01	2,76E-01	6,77E-02	0	3,25E-02	2,43E-01	1,25E+00	-1,82E-01

GWP total Global Warming Potential total; GWP fossil Global Warming Potential fossil fuels ; GWP biogenic Global Warming Potential biogenic; GWP luluc Global W Potential land use change; ODP Ozone Depletion; AP Acidification; EP freshwater Eutrophication aquatic freshwater; EP marine Eutrophication aquatic marine; EP terrestrial Eutrophication terrestrial ;POCP Photochemical zone formation; ADPE Abiotic Depletion Potential minerals and metals; ADPf Abiotic Depletion Potential fossil fuels; WDP Water Depletion Potential

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

Small amounts of unused product can be disposed along with household or construction waste after solidification following consultation with waste disposal facility operator and the pertinent authorities, and adhering to the necessary technical regulations.



Addition	Additional environmental impact indicators											
Pai	rameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D		
	PM	Disease incidence	1,71E-07	1,96E-09	2,01E-10	0	2,40E-10	9,00E-12	1,40E-09	-4,40E-11		
(m) B	IRP ²	kgBq U235 eq.	2,94E-02	1,74E-03	1,15E-04	0	1,85E-04	3,70E-05	9,27E-04	-3,55E-05		
	ETP-fw ¹	CTUe	3,26E+01	2,84E-01	3,01E-02	0	3,10E-02	1,56E-03	1,11E-01	-3,99E-03		
40-* * [*] *	HTP-c ¹	CTUh	2,03E-09	0,00E+00	2,00E-12	0	0,00E+00	0,00E+00	5,00E-12	0,00E+00		
48- E	HTP-nc ¹	CTUh	6,43E-08	2,45E-10	1,07E-10	0	3,00E-11	1,00E-12	8,00E-11	-5,00E-12		
	SQP ¹	Pt	1,34E+01	4,04E-01	3,04E-02	0	4,86E-02	1,25E-03	7,82E-01	8,79E-03		

PM Particulate Matter emissions; IRP Ionizing radiation – human health; ETP-fw Eco toxicity – freshwater; HTP-c Human toxicity – cancer effects; HTP-nc Human toxicity – non cancer effects; SQP Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.



Resource use										
	rameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
i S	PERE	MJ	1,32E+00	4,72E-03	6,39E-04	0	5,34E-04	1,14E-03	7,27E-03	-9,07E-04
A	PERM	MJ	7,10E-01	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
°₽,	PERT	MJ	2,03E+00	4,72E-03	6,39E-04	0	5,34E-04	1,14E-03	7,27E-03	-9,07E-04
Ð	PENRE	MJ	6,41E+01	3,99E-01	2,85E-02	0	4,24E-02	2,21E-03	2,03E-01	-4,09E-03
	PENRM	MJ	1,40E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
IA	PENRT	MJ	6,42E+01	3,99E-01	2,85E-02	0	4,24E-02	2,21E-03	2,03E-01	-4,09E-03
	SM	kg	3,15E-02	0,00E+00	1,41E-05	0	0,00E+00	1,90E-06	8,81E-05	-7,83E-06
F	RSF	MJ	2,54E-02	1,61E-04	1,78E-05	0	1,87E-05	2,30E-05	1,51E-04	-1,85E-05
198	NRSF	MJ	5,35E-03	6,32E-04	1,30E-04	0	6,26E-05	-1,42E-06	3,26E-04	-1,91E-05
99	FW	m ³	4,81E-02	4,22E-05	1,81E-05	0	4,83E-06	3,78E-06	2,50E-04	-1,42E-04

PERE Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM Use of renewable primary energy resources used as raw materials; PERT Total use of renewable primary energy resources; PENRE Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PERT Total use of non renewable primary energy resources used as raw materials; PENRT Total use of non renewable primary energy resources used as raw materials; PENRT Total use of non renewable primary energy resources; SM Use of secondary materials; RSF Use of renewable secondary fuels; NRSF Use of non renewable secondary fuels; FW Use of net fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed



End of life - Wa	ste									
Pa	rameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Â	HWD	kg	1,17E-02	2,12E-05	5,24E-04	0	2,32E-06	2,20E-07	1,43E-05	-9,34E-07
Ū	NHWD	kg	3,50E-01	3,02E-02	1,92E-02	0	3,69E-03	6,96E-06	9,01E-01	-2,83E-05
8	RWD	kg	3,39E-05	2,73E-06	1,71E-07	0	2,90E-07	2,33E-08	1,32E-06	-3,07E-08

HWD Hazardous waste disposed; NHWDNon-hazardous waste disposed; RWD Radioactive waste disposed;

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

End of life - Outpu	d of life - Output flow												
Param	eter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D			
$\otimes $	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00			
\$	MFR	kg	3,48E-03	0,00E+00	2,14E-02	0	0,00E+00	1,00E-01	8,03E-05	-1,83E-07			
DØ	MER	kg	3,10E-03	0,00E+00	1,92E-07	0	0,00E+00	2,30E-07	1,51E-06	-6,86E-06			
\Im	EEE	MJ	1,49E-02	0,00E+00	3,52E-02	0	0,00E+00	3,95E-07	1,25E-04	-1,66E-06			
DU	EET	MJ	2,25E-01	0,00E+00	5,32E-01	0	0,00E+00	5,97E-06	1,89E-03	-2,50E-05			

CRU Components for re-use; MFR Materials for recycling; MER Materials for energy recovery; EEE Exported electrical energy; EET Exported energy Thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

Biogenic Carbon Content		
Parameter	Unit	At the factory gate
Biogenic carbon content in product	kg C	0,00E+00
Biogenic carbon content in accompanying packaging	kg C	2,11E-02

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2



Additional Norwegian requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Renewable electricity Saint-Gobain, based on 100% hydro power, with Guarantee of Origin from LOS 2021 (kWh)	ecoinvent 3.6	4,26	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list or the Norwegian priority list.

Indoor environment

weber WX Waterproofing membrane is part of weberSmart Waterproofing system which has M1 indoor air emission classification granted by The Finnish Building Information Foundation RTS (https://cer.rts.fi/en/m1-emission-class-for-building-material/).

Additional Environmental Information

Environmental impact	nvironmental impact indicators EN 15804+A1 and NPCR Part A v2.0												
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D				
GWP	kg CO ₂ -eq	2,27E+00	2,61E-02	3,78E-03	0	2,70E-03	7,00E-05	7,23E-03	-2,45E-04				
ODP	kg CFC11 -eq	1,14E-07	5,05E-09	3,25E-10	0	5,10E-10	1,70E-11	2,25E-09	-3,80E-11				
POCP	kg C ₂ H ₄ -eq	5,76E-04	5,68E-06	6,61E-07	0	3,52E-07	1,56E-08	1,70E-06	-5,11E-08				
AP	kg SO ₂ -eq	1,39E-02	1,52E-04	8,48E-06	0	5,44E-06	2,63E-07	2,01E-05	-5,99E-07				
EP	kg PO ₄ ³⁻ -eq	1,20E-03	1,64E-05	3,20E-06	0	5,94E-07	3,48E-08	2,37E-06	-7,02E-08				
ADPM	kg Sb -eq	1,88E-05	4,11E-07	3,85E-08	0	4,66E-08	9,01E-10	6,65E-08	-2,03E-08				
ADPE	MJ	6,00E+01	3,92E-01	2,77E-02	0	4,16E-02	8,47E-04	1,95E-01	-3,87E-03				
GWPIOBC	kg CO ₂ -eq	2,15E+00	2,64E-02	0,00E+00	0	2,73E-03	0,00E+00	0,00E+00	-2,45E-04				

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources; GWP-IOBC/GHG Global warming potential calculated according to the principle of instantanious oxidation (except emissions and uptake of biogenic carbon)



Bibliography

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NPCR 009 Part B for technical-chemical products. Ver. 2.0 October 2021, EPD-Norge.

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EPD for the best

environmental

decision

The Norwegian EPD Foundation

www.epd-norge.no

