

## **ENVIRONMENTAL PRODUCT DECLARATION**

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:

Program operator: Publisher:

Declaration number:

Registration number:

ECO Platform reference number:

Issue date:

Valid to:

Saint-Gobain Sweden AB, Weber floor

The Norwegian EPD Foundation

The Norwegian EPD Foundation

NEPD-1908-834-EN

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I.

16.10.2019

16.10.2024

# weberfloor 120 reno DR

## Saint-Gobain Sweden AB, Weber floor



www.epd-norge.no





Product:  weberfloor 120 reno DR  Saint-Gobain Sweden AB, Weber floor Contact person: Anders Anderberg Phone: +46 8 825 6105 e-mail: anders anderberg@weber.se  Program operator:  Manufacturer:  The Norwegian EPD Foundation Pb. 5250 Majorstuen, 0303 Oslo Phone: +47 977 22 020 e-mail: post@epd-norge.no  Declaration number: NEPD-1908-834-EN  ECO Platform reference number:  Management system: ISO 9001, ISO 14001  This declaration is based on Product Category Rules: CEN Standard EN 15804-2012-A11:2013 serves as core PCR. Requirements on the EPD for Mineral factory-made mortar.  Statement of liability:  Issue date: 16.10.2019  Valid to: 16.10.2024  Valid to: 16.10.2024  Valid to: 16.10.2024  Valid to: 18.10.2024  Fear of study:  Ley of study:  EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.  Functional unit:  The declaration is developed using eEPD v3.0 from LCA.no Approval: Compary specific data are: Collected/registered by: Thomas Flycht	
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Independent verification of data, other environmental information and the declaration according to ISO14025:2010, § 8.1.3 and § 8.1.4	
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(Independent verifier approved by EPD Norway)  Håkon Hauan  Managing Director of EPD-Norway	



### **Product**

### Product description:

Weberfloor 120 Reno DR is a fiber-reinforced dust reduced self-drying pumpable levelling compound for floors in housing, offices and public areas indoors. It can be used both for making flat and smooth surfaces as well as for slopes in e.g. bathrooms. It is suitable as underlayment for most surface coverings such as tiles, vinyl flooring, linoleum flooring and floating parquetry. The product is moisture-resistant, slag and casein-free.

### **Product specification**

The composition of the product is described in the following table:

Materials	%
Binder	15-30%
Aggregate	30-60%
Filler	20-50%
Additives	<3%

#### Technical data:

weberfloor 120 Reno DR is designed, produced and CE marked according to EN 13813  $\,$ 

#### Market:

Scandinavian countries

Reference service life, product

>50 years

Reference service life, building

>50 years

### LCA: Calculation rules

#### **Declared unit:**

1 kg weberfloor 120 reno DR

#### **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:

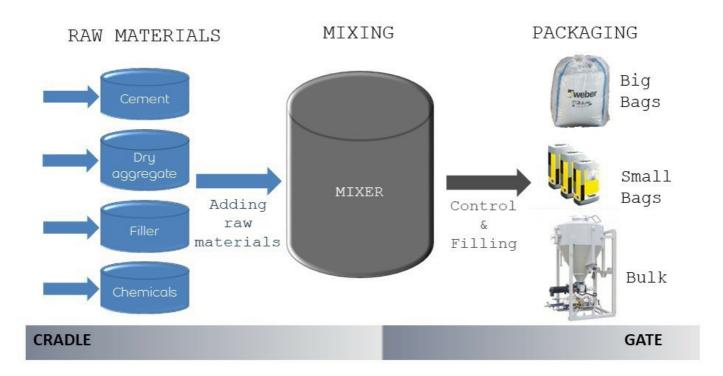
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Cement	Supplier	EPD	2012
Binder	EPD-BVG-20140073-IAG1-EN	EPD	2014
Cement	Supplier	EPD	2014
Additives	ecoinvent 3.4	Database	2017
Aggregate	ecoinvent 3.4	Database	2017
Filler	ecoinvent 3.4	Database	2017
Packaging	ecoinvent 3.4	Database	2017
Packaging	Modified ecoinvent 3.4	Database	2017
Additives	ecoinvent 3.5	Database	2018



### System boundary:

All processes from raw material extraction to product transport to the construction site are included in the analysis (A1-A4). The flow chart below illustrates the system boundaries for the A1 to A3 part of the analysis.



### Additional technical information:

The product is P-labeled by Research Institute of Sweden.

The consumption of the product is 1,75 kg  $/\ m^2\ /\ mm$ .

The remaining powder and cured material may be disposed as construction waste to disposal or recycling.



# LCA: Scenarios and additional technical information

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

Transport to market (A4) is calculated based on the default distance of 300 km from NPCR 009

### Transport from production place to user (A4)

Туре	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (I/t)
Truck	55,0 %	Truck, lorry over 32 tonnes, EURO 5	300	0,022823	l/tkm	6,85
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

Assembly (A5)		Use (B1)			
•	Unit	Value		Unit	Value
Auxiliary	kg				
Water consumption	m <sup>3</sup>		·		
Electricity consumption	kWh		1		
Other energy carriers	MJ				
Material loss	kg				
Output materials fr ste treatment	kg				
Dust in the air	kg				
VOC emissions	kg				
Maintenance (B2)/Repair (B3)			Replacement (B4)/Refurbishment (B5)		
	Unit	Value		Unit	Value
Maintenance cycle*	2.CO		Replacement cycle*		
Auxiliary	cha.		Electricity consumption	kWh	
Other resources	4/10	)_	Replacement of worn parts		
Water consumption	m <sup>3</sup>	36	* Described above if relevant		
Electricity consumption	kWh	.,(6	* -		
Other energy carriers	MJ		47		
Material loss	kg		· Aa		
VOC emissions	kg		' ara		
Operational energy (B6) and water consumpt	ion (B7)		Replacement (B4)/Refurbishment (B5)  Replacement cycle*  Electricity consumption  Replacement of worn parts  Described above if relevant  A7.  A4.  End of Life (C1, C)  Hazardous waste disposed  Collected as mixed construction wb.  Reuse  Recycling		
	Unit	Value	ino	Unit	Value
Water consumption	m <sup>3</sup>		Hazardous waste disposed	kg	
Electricity consumption	kWh		Collected as mixed construction ws.	kg	
Other energy carriers	MJ		Reuse	kg	
Power output of equipment	KW		Recycling		
		-	Energy recovery		

### Transport to waste processing (C2)

Туре	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (I/t)
Truck					I/tkm	
Railway					I/tkm	
Boat			8		I/tkm	
Other Transportation					I/tkm	

To landfill



### LCA: Results

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

	Product stage			instal	ruction llation age		User stage				End of I	ife stage	9	Beyond the system bondaries			
	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
ĺ	A1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	. D
ĺ	Χ	Х	Х	Х	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	. MND

### **Environmental impact**

Parameter	Unit	A1	A2	А3	A4
GWP	kg CO <sub>2</sub> -eq	1,79E-01	1,95E-02	1,58E-02	2,62E-02
ODP	kg CFC11 -eq	1,60E-08	3,43E-09	3,65E-09	5,10E-09
POCP	kg C <sub>2</sub> H <sub>4</sub> -eq	4,01E-05	8,98E-06	5,41E-06	4,23E-06
АР	kg SO <sub>2</sub> -eq	7,57E-04	2,54E-04	5,67E-05	8,51E-05
EP	kg PO <sub>4</sub> <sup>3-</sup> -eq	9,31E-05	2,48E-05	1,05E-05	1,43E-05
ADPM	kg Sb -eq	1,67E-06	2,81E-08	1,15E-08	5,91E-08
ADPE	MJ	2,09E+00	2,73E-01	2,84E-01	4,11E-01

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

Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009

\*INA Indicator Not Assessed



### Resource use

Parameter	Unit	A1	A2	А3	A4
RPEE	MJ	7,23E-01	5,36E-02	1,58E-01	7,42E-03
RPEM	MJ	5,33E-01	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	1,26E+00	5,36E-02	1,58E-01	7,42E-03
NRPE	MJ	2,48E+00	2,90E-01	2,86E-01	4,23E-01
NRPM	MJ	3,37E-02	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	2,52E+00	2,90E-01	2,86E-01	4,23E-01
SM	kg	5,63E-02	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	1,50E-02	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	4,80E-01	0,00E+00	0,00E+00	0,00E+00
W	m <sup>3</sup>	2,00E-03	7,12E-05	3,51E-05	9,98E-05

RPEE Renewable primary energy resources used as energy carrier; RPEM Renewable primary energy resources used as raw materials; TPE Total use of renewable primary energy resources; NRPE Non renewable primary energy resources used as energy carrier; NRPM Non renewable primary energy resources used as materials; TRPE 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; W Use of net fresh water

Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009

\*INA Indicator Not Assessed

### End of life - Waste

Parameter	Unit	A1	A2	А3	A4
HW	kg	8,03E-06	2,12E-07	7,03E-05	2,25E-07
NHW	kg	2,67E-02	1,31E-02	1,19E-02	3,84E-02
RW	kg	INA*	INA*	INA*	INA*

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactive waste disposed

Reading example: 9.0 E-03 = 9.0\*10-3 = 0.009

\*INA Indicator Not Assessed

### End of life - Output flow

Parameter	Unit	A1	A2	А3	A4
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	0,00E+00	0,00E+00	1,55E-04	0,00E+00
MER	kg	0,00E+00	0,00E+00	2,90E-04	0,00E+00
EEE	MJ	INA*	INA*	INA*	INA*
ETE	MJ	INA*	INA*	INA*	INA*

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy

Reading example: 9,0 E-03 = 9,0\*10-3 = 0,009

\*INA Indicator Not Assessed



### **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 with Guarantee of Origin from LOS (kWh)	Modified ecoinvent 3.4	60,20	g CO2-ekv/kWh

#### **Dangerous substances**

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

Name	CASNo	Amount
Portland Cement	65997-15-1	0-10%

#### Indoor environment

The product meets the requirements for low emissions and odour (M1) by EN15251: 2007 Appendix E

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