

ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Saint-Gobain Sweden AB, Weber
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-3583-2249-EN
Registration number:	NEPD-3583-2249-EN
ECO Platform reference number:	-
Issue date:	30.06.2022
Valid to:	30.06.2027

webermin 207 rivputs

Saint-Gobain Sweden AB, Weber



www.epd-norge.no



General information

Product:

webermin 207 rivputs

Program operator:

The Norwegian EPD Foundation
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Declaration number:

NEPD-3583-2249-EN

ECO Platform reference number:**This declaration is based on Product Category Rules:**

CEN Standard EN 15804:2012+A1:2013 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 webermin 207 rivputs

Declared unit with option:

A1,A2,A3,A4,A5,C1,C2,C3,C4,D

Functional unit:**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. Individual third 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 annually. 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.

Anne Rønning, Norsus AS

(no signature required)

Owner of the declaration:

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Manufacturer:

Saint-Gobain Sweden AB, Weber

Place of production:

Saint-Gobain Sweden AB, Weber
Box 415 SE-19162 Sollentuna
Sweden

Management system:

ISO 9001, ISO 14001

Organisation no:

SE-556241-2592

Issue date: 30.06.2022**Valid to:** 30.06.2027**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 has been developed and verified using EPD tool lca.tools ver EPD2020.11, developed by LCA.no AS. The EPD tool is integrated into the company's environmental management system, and has been approved by EPD-Norway

Developer of EPD:

Charlotte Karlsson

Reviewer of company-specific input data and EPD:

Helene Wallgren

Approved:

Sign



Håkon Hauan, CEO EPD-Norge

Product

Product description:

webermin 207 rivputs is a factory made dry mortar based on cement and lime with well graded white dolomite as aggregates. It is a pigmented decorative mineral render to use on top of Webers base coat renders to give a robust facade. When mixed with water, it's ready to use render outdoor use. The render are sprayable and pumpable in a 60m hose. webermin 207 rivputs can be delivered in closed silos of 10 tons with a flow mixer to avoid dust.

Product specification

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

Materials	%
Binder	5-20
Aggregates	60-90
Filler	2-5
Additives	<1
Packaging	<0,1

Technical data:

webermin 207 rivputs are tested and approved according to EN 998-1. Mortar category: CS II

For further information, see www.se.weber

Market:

Sweden

Reference service life, product

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

Reference service life, building

50 years

LCA: Calculation rules

Declared unit:

1 kg webermin 207 rivputs

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.

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
Chemicals	EPD-EFC-20150086-IAG1-EN	EPD	2015
Additives	ecoinvent 3.4	Database	2017
Cellulose Ether	ecoinvent 3.4	Database	2017
Filler	ecoinvent 3.4	Database	2017
Packaging	ecoinvent 3.4	Database	2017
Packaging	Modified ecoinvent 3.4	Database	2017
Binder	ecoinvent 3.5	Database	2018
Binder	Supplier	EPD	2018
Filler/aggregate	ecoinvent 3.6	Database	2019

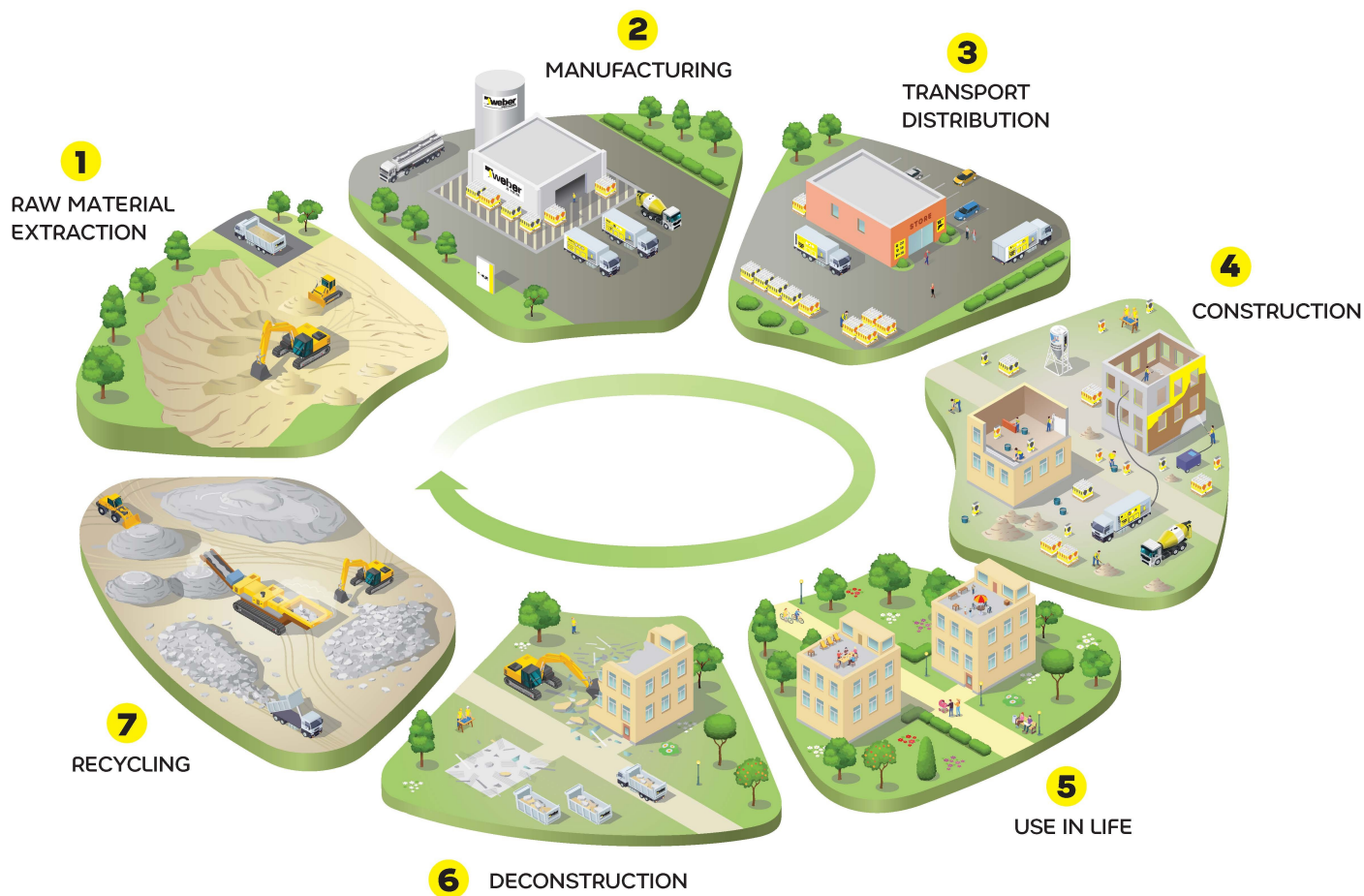
Allocation:

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.

System boundary:

All processes from raw material extraction, product transport, the construction site, assembly, end of product life and beyond the system boundaries are included in the analysis. The basic production process involves mixing of various raw materials.

The flow chart below illustrates the system boundaries for the full life cycle analysis.



Additional technical information:

The remaining powder is classified as hazardous waste. Cured material is inactive and not classified as hazardous waste and may be disposed as construction waste to disposal or recycling.

The packaging properly emptied is not classified as hazardous waste.

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)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/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)

	Unit	Value
Auxiliary	kg	
Water consumption	m ³	
Electricity consumption	kWh	0,0052
Other energy carriers	MJ	
Material loss	kg	
Output materials from waste treatment	kg	0,0274
Dust in the air	kg	
VOC emissions	kg	

End of Life (C1, C3, C4)

	Unit	Value
Hazardous waste disposed	kg	
Collected as mixed construction waste	kg	
Reuse	kg	
Recycling	kg	0,9000
Energy recovery	kg	
To landfill	kg	0,1000

Transport to waste processing (C2)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck	55,0 %	Truck, lorry over 32 tonnes, EURO 5	50	0,022823	l/tkm	1,14
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

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Benefits and loads beyond the system boundaries (D)

	Unit	Value
Substitution of primary aggregates with crushed recycled cement-based products (kg)	kg/DU	0,90

LCA: Results

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

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

Product stage			Construction installation stage		User stage							End of life 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
X	X	X	X	X	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

Environmental impact

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP	kg CO ₂ -eq	2,17E-01	2,62E-02	8,43E-03	3,96E-03	4,36E-03	3,11E-04	5,18E-04	-3,57E-03
ODP	kg CFC11 -eq	1,39E-08	5,10E-09	3,59E-10	6,86E-10	8,50E-10	6,30E-11	1,72E-10	-4,62E-10
POCP	kg C ₂ H ₄ -eq	3,89E-05	4,23E-06	2,64E-07	6,63E-07	7,05E-07	5,71E-08	1,58E-07	-9,30E-07
AP	kg SO ₂ -eq	6,61E-04	8,51E-05	6,88E-06	2,99E-05	1,42E-05	1,57E-06	3,78E-06	-2,07E-05
EP	kg PO ₄ ³⁻ -eq	2,10E-04	1,43E-05	1,80E-06	6,53E-06	2,38E-06	2,79E-07	6,67E-07	-3,67E-06
ADPM	kg Sb -eq	2,22E-07	5,91E-08	4,60E-09	1,70E-11	9,85E-09	1,90E-11	1,00E-11	-1,91E-10
ADPE	MJ	1,68E+00	4,11E-01	1,38E-02	5,47E-02	6,84E-02	3,03E-03	1,46E-02	-3,81E-02

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-A3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	1,25E+00	7,42E-03	2,84E-01	3,00E-04	1,24E-03	4,06E-03	1,19E-04	-1,28E-02
RPEM	MJ	4,51E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	1,70E+00	7,42E-03	2,84E-01	3,00E-04	1,24E-03	4,06E-03	1,19E-04	-1,28E-02
NRPE	MJ	1,87E+00	4,23E-01	1,48E-01	5,52E-02	7,06E-02	7,93E-03	1,48E-02	-5,25E-02
NRPM	MJ	1,13E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	1,98E+00	4,23E-01	1,48E-01	5,52E-02	7,06E-02	7,93E-03	1,48E-02	-5,25E-02
SM	kg	1,51E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	1,04E-02	0,00E+00	1,40E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	5,85E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
W	m ³	1,02E-03	9,98E-05	1,72E-05	4,75E-06	1,66E-05	1,99E-06	1,60E-05	-1,04E-03

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-A3	A4	A5	C1	C2	C3	C4	D
HW	kg	2,12E-05	2,25E-07	3,42E-08	1,50E-07	3,75E-08	7,32E-09	2,20E-08	-2,10E-07
NHW	kg	7,24E-02	3,84E-02	1,25E-03	2,50E-04	6,40E-03	8,94E-05	1,00E-01	-1,85E-03
RW	kg	INA*	INA*	INA*	INA*	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-A3	A4	A5	C1	C2	C3	C4	D
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	9,65E-05	0,00E+00	5,76E-03	0,00E+00	0,00E+00	3,58E-01	0,00E+00	0,00E+00
MER	kg	1,24E-03	0,00E+00	2,16E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	INA*	INA*	INA*	INA*	INA*	INA*	INA*	INA*
ETE	MJ	INA*	INA*	INA*	INA*	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 CO ₂ -ekv/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list or the Norwegian priority list. The product is classified as hazardous waste (Avfallsforskriften, Annex III), see table.





Name	CASNo	Amount
Portland Cement	65997-15-1	5-10%
Calcium hydroxide	1305-62-0	5-10%

Indoor environment

The product has no impact on the indoor environment.

Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.
 ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.
 EN 15804:2012+A1:2013 Environmental product declaration - Core rules for the product category of construction products.
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 NPCR Part A: Construction products and services. Ver. 1.0. April 2017, EPD-Norge.
 NPCR 009 Part B for technical-chemical products. Ver. 1.0 June 2018, EPD-Norge.

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