

## ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Saint-Gobain Sweden AB, Scanspac
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-3183-1824-EN
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## Dalapro Robust, Dalapro Lightning Robust

Saint-Gobain Sweden AB, Scanspac

**Dalapro**<sup>®</sup>

[www.epd-norge.no](http://www.epd-norge.no)



## General information

### Product:

Dalapro Robust, Dalapro Lightning Robust

### Program operator:

The Norwegian EPD Foundation  
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### Declaration number:

NEPD-3183-1824-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 Dalapro Robust, Dalapro Lightning Robust

### Declared unit with option:

A1,A2,A3,A4

### 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:

Saint-Gobain Sweden AB, Scanspac  
Contact person: Christian Nilsson  
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### Manufacturer:

Saint-Gobain Sweden AB, Scanspac

### Place of production:

Saint-Gobain Sweden AB, Scanspac  
Kemivägen 7 SE-705 97 Glanshammar  
Sweden

### Management system:

ISO 9001, ISO 14001

### Organisation no:

556241-2592

### Issue date:

21.10.2021

### Valid to:

### Year of study:

2020

### 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:

Ellinor Johansson

Reviewer of company-specific input data and EPD:

Christian Borgenfalk

### Approved:

Sign



Håkon Hauan, CEO EPD-Norge

## Product

### Product description:

Dalapro Robust is a grey, ready-mixed hand filler for thin smoothing and joint filling with paper tape.

Dalapro Lightning Robust is a grey, ready-mixed spray filler for thin smoothing and joint filling with paper tape.

The products has been specifically developed for use when a more hard-wearing surface is required, such as in hospitals, schools, corridors and stairwells. Suitable for all commonly used substrates on walls and ceilings indoors. The hardness of the filler minimises the risk of damage to the surface. The products is also approved for the adhesion of corner beads.

### Product specification

Packaging:

Dalapro Robust: 10 litre bucket. Dalapro Robust 10 litre is packaged in a bucket manufactured in 100 % recyclable plastic and consists of at least 90 % recycled plastic.

Dalapro Lightning Robust: 15-litre plastic sack

All calculations in this EPD is made with the recycled 10 litre bucket. It represent the majority of the market.

Materials	%
Water	20-50
Filler- cenospheres	25-50
Filler-dolomite	10-25
Binder	10-25
Thickener	1-5
Additive	1-5
Packaging	
Pallet	

### Technical data:

TECHNICAL DATA

Binding agent: Latex co-polymer

Solvent: Water

Grain size: Max. 0.2 mm

pH: Approx. 9

Colour: Grey

### Market:

Europe

### Reference service life, product

Filler has a limited shelf life and is date-marked.

Unopened packaging can be kept in a dark place, free from frost, for up to 12 months. Containers that have been opened must be sealed well.

### Reference service life, building

Not included in the declaration

## LCA: Calculation rules

### Declared unit:

1 kg Dalapro Robust, Dalapro Lightning Robust

### 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	Chemicals below cut-off	No data	0
Additives	ecoinvent 3.4	Database	2017
Binder	ecoinvent 3.4	Database	2017
Filler	ecoinvent 3.4	Database	2017
Packaging	ecoinvent 3.4	Database	2017
Water	ecoinvent 3.4	Database	2017
Packaging	Modified ecoinvent 3.4	Database	2017
Filler	LCA.no	Database	2018
Packaging	Supplier	Specific	2020

**System boundary:**

The flowchart shows the system boundaries A1-A4.

All calculations in this EPD is made with the recycled 10 litre bucket. It represent the majority of the market.

**A1****A2****A3****A4****Additional technical information:**

Suitable for installing paper tape. Combined with CertainTeed Marco Joint Tape, the product is suitable for joint filling on plasterboard. Meets CE-marking requirements in accordance with EN 13963. Manufactured in accordance with ISO 9001 and ISO 14001.

## LCA: Scenarios and additional technical information

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

### 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 6	300	0,022606	l/tkm	6,78
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

### Assembly (A5)

	Unit	Value
Auxiliary	kg	
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
Output materials from waste treatment	kg	
Dust in the air	kg	
VOC emissions	kg	

### Use (B1)

	Unit	Value

### Maintenance (B2)/Repair (B3)

	Unit	Value
Maintenance cycle*		
Auxiliary		
Other resources		
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
VOC emissions	kg	

### Replacement (B4)/Refurbishment (B5)

	Unit	Value
Replacement cycle*		
Electricity consumption	kWh	
Replacement of worn parts		

\* Described above if relevant

### Operational energy (B6) and water consumption (B7)

	Unit	Value
Water consumption	m <sup>3</sup>	
Electricity consumption	kWh	
Other energy carriers	MJ	
Power output of equipment	kW	

### End of Life (C1, C2)

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

### Transport to waste processing (C2)

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

Scenarios after A1-A4 are not included

## 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													

### Environmental impact

Parameter	Unit	A1-A3	A4
GWP	kg CO <sub>2</sub> -eq	4,19E-01	2,48E-02
ODP	kg CFC11 -eq	4,09E-08	5,10E-09
POCP	kg C <sub>2</sub> H <sub>4</sub> -eq	1,28E-04	3,88E-06
AP	kg SO <sub>2</sub> -eq	1,46E-03	6,41E-05
EP	kg PO <sub>4</sub> <sup>3-</sup> -eq	3,93E-04	8,84E-06
ADPM	kg Sb -eq	1,11E-06	5,91E-08
ADPE	MJ	1,34E+01	4,08E-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-A3	A4
RPEE	MJ	2,20E+00	7,41E-03
RPEM	MJ	1,09E+00	0,00E+00
TPE	MJ	3,29E+00	7,41E-03
NRPE	MJ	1,16E+01	4,20E-01
NRPM	MJ	2,96E+00	0,00E+00
TRPE	MJ	1,46E+01	4,20E-01
SM	kg	5,00E-02	0,00E+00
RSF	MJ	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00
W	m <sup>3</sup>	2,07E-02	9,95E-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<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

End of life - Waste

Parameter	Unit	A1-A3	A4
HW	kg	3,72E-03	2,24E-07
NHW	kg	2,04E-01	3,84E-02
RW	kg	INA*	INA*

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

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

End of life - Output flow

Parameter	Unit	A1-A3	A4
CR	kg	0,00E+00	0,00E+00
MR	kg	8,00E-04	0,00E+00
MER	kg	4,73E-03	0,00E+00
EEE	MJ	INA*	INA*
ETE	MJ	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<sup>-3</sup> = 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.

### 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.

ISO 21930:2017 Sustainability in buildings and civil engineering works. Core rules for environmental product declarations of construction products.





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Iversen et al., (2019) EPD generator for Saint-Gobain Weber and Scanspac - Background information and LCA data, LCA.no report number 05.18

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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