

ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:

Program operator:

Publisher:

Saint-Gobain Sweden AB, Scanspac
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Dalapro Max Plus, Roll Max Plus, Lightning Max Plus

Saint-Gobain Sweden AB, Scanspac

Dalapro®

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General information Product: Owner of the declaration: Dalapro Max Plus, Roll Max Plus, Lightning Max Plus Saint-Gobain Sweden AB, Scanspac Contact person: Christian Nilsson Phone: +46 (0)19-46 34 00 e-mail: info@dalapro.se Program operator: Manufacturer: Saint-Gobain Sweden AB, Scanspac The Norwegian EPD Foundation Pb. 5250 Majorstuen, 0303 Oslo Phone: +47 97722020 e-mail: post@epd-norge.no Place of production: Declaration number: NEPD-1922-847-EN Saint Gobain Sweden AB, Scanspac Site: Glanshammar, Kemivägen 7, 70597 Glanshammar, SWEDEN Site: Sala, Norrängsgatan 35, 73338 Sala, SWEDEN ECO Platform reference number: Management system: ISO 9001, ISO 14001 This declaration is based on Product Category Rules: Organisation no: 556241-2592 CEN Standard EN 15804:2012+A1:2013 serves as core PCR. NPCR 009 version 1.0 Statement of liability: Issue date: 19.11.2019 The owner of the declaration shall be liable for the underlying Valid to: 19.11.2024 information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences. Declared unit: Year of study: 1 kg Dalapro Max Plus, Roll Max Plus, Lightning Max Plus 2018 Declared unit with option: Comparability: EPD of construction products may not be comparable if they not A1.A2.A3.A4 comply with EN 15804 and seen in a building context. **Functional unit:** Author of the Life Cycle Assessment: The declaration is developed using eEPD v3.0 from LCA.no Approval: Company specific data are: Collected/registered by: Ellinor Johansson Internal verification by: Christian Nilsson Verification: Approved: Independent verification of data, other environmental information and the declaration according to ISO14025:2010, § 8.1.3 and § 8.1.4 External Third party verifier: Sign and Roming Senior Research Scientist, Anne Rønning

(Independent verifier approved by EPD Norway)

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Product

Product description:

Dalapro Max Plus, Dalapro Roll Plus and Dalapro Lightning Plus is readymixed all-round fillers with extra high filling capacity. New recipe makes the filler easy to sand and clean. Minimal risk of blister or pinhole formation on non-absorbent substrates. Suitable for initial filling and thin smoothing of walls and ceilings in new construction and renovation.

MATERIAL CONSUMPTION For thin smoothing with a 1 mm layer thickness: approximately 1 l/m^2 .

Product specification

Packaging: Dalapro Max Plus: 3-litre and 10-litre plastic buckets. Dalapro Roll Max Plus: 12-litre plastic bucket and Dalapro Lightning Max Plus: 15 litre plastic bucket and 15L plastic bag.

All calculations of the packaging material is made with the 10 liters bucket that represent the majority of the market.

Materials	%
Filler Dolomite	30-40%
Water	30-50%
Filler Perlite	5-10%
Binder	2,5-10%
Additive	1-3%

Technical data:

Binding agent: Latex co-polymer

Solvent: Water

Grain size: Max. 0.35 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 part of the declaration.

LCA: Calculation rules

Declared unit:

1 kg Dalapro Max Plus, Roll Max Plus, Lightning Max Plus

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.

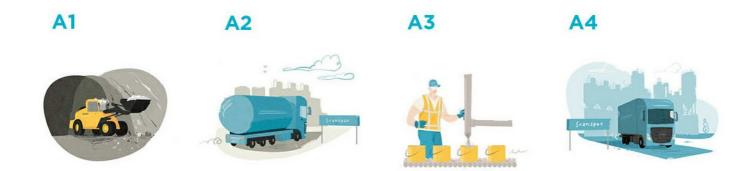
Data quality:

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
Chemicals	Chemicals below cut-off	No data	0
Additives	ecoinvent 3.4	Database	2017
Binder	ecoinvent 3.4	Database	2017
Cellulose Ether	ecoinvent 3.4	Database	2017
Chemicals	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



System boundary:



Additional technical information:

Suitable for most substrates and produces a fine finish ready to paint. Meets CE-marking requirements in accordance with EN 15824. 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)

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 ³		100			
Electricity consumption	kWh					
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)/Refu	urhishment (B5)		
	Unit	Value		aronamient (Do)	Unit	Value
Maintenance cycle*	O'Co		Replacement cycle*			
Auxiliary	Pha.		Electricity consumption	1	kWh	
Other resources	drio		Replacement of worn p	arts		
Water consumption	m ³	36	* Described above if rel	evant		
Electricity consumption	kWh	116	F .			
Other energy carriers	MJ		47			
Material loss	kg		"Ad			
VOC emissions	kg		dra			
Operational energy (B6) and water consump	otion (B7)		End of Life (C1.	201		
	Unit	Value	Replacement (B4)/Reful. Replacement cycle* Electricity consumption Replacement of worn p * Described above if rel 47.44 End of Life (C1, Hazardous waste disport Collected as mixed con Reuse Recycling	in	Unit	Value
Water consumption	m ³		Hazardous waste dispo	sed C/U	kg	
Electricity consumption	kWh		Collected as mixed con	struction was	√ kg	
Other energy carriers	MJ		Reuse		kg	
Power output of equipment	K/V		Recycling			
			Energy recovery			
			To landfill		kg	
Transport to waste processing (C2)						
	Capacity					
Туре	utilisation (incl.			Fuel/Energy		

Туре	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (I/t)
Truck					I/tkm	
Railway					I/tkm	
Boat			3		I/tkm	27
Other Transportation					I/tkm	

LCA: Results

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

Product stage			Construction installation stage			User stage				End of I	life stage	e	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
A1	A2	А3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	. D
Х	Х	Х	Х	MND	MND	MND	MND	MND	MNR	MND	MND	MND	MND	MND	MND	. MND

Environmental impact

Parameter	Unit	A1	A2	А3	A4
GWP	kg CO ₂ -eq	2,95E-01	1,63E-02	4,41E-03	2,62E-02
ODP	kg CFC11 -eq	1,92E-08	1,95E-09	6,35E-10	5,10E-09
POCP	kg C ₂ H ₄ -eq	1,37E-04	5,77E-06	1,63E-06	4,23E-06
АР	kg SO ₂ -eq	2,24E-03	1,62E-04	3,22E-05	8,51E-05
EP	kg PO ₄ ³⁻ -eq	4,81E-04	1,71E-05	1,58E-05	1,43E-05
ADPM	kg Sb -eq	1,42E-06	2,11E-08	1,81E-08	5,91E-08
ADPE	MJ	5,92E+00	2,42E-01	4,15E-02	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

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Resource use

Parameter	Unit	A1	A2	А3	A4
RPEE	MJ	1,50E+00	4,89E-03	2,61E-01	7,42E-03
RPEM	MJ	9,41E-01	0,00E+00	1,45E-04	0,00E+00
TPE	MJ	2,44E+00	4,89E-03	2,62E-01	7,42E-03
NRPE	MJ	6,81E+00	2,50E-01	4,40E-02	4,23E-01
NRPM	MJ	2,18E+00	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	8,98E+00	2,50E-01	4,40E-02	4,23E-01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
W	m ³	3,58E-03	5,05E-05	4,85E-04	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	4,42E-06	1,32E-07	1,69E-04	2,25E-07
NHW	kg	1,47E-01	1,53E-02	6,97E-03	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	7,61E-04	0,00E+00
MER	kg	0,00E+00	0,00E+00	9,79E-03	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.

Indoor environment

Emission test performed by Eurofins according to the ISO 16000 standard.

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