

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, Scanspac

The Norwegian EPD Foundation

The Norwegian EPD Foundation

NEPD-3387-2007-EN

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07.03.2022

07.03.2027

Dalapro Hydro

Saint-Gobain Sweden AB, Scanspac



www.epd-norge.no





General information

Product:

Dalapro Hydro

Program operator:

The Norwegian EPD Foundation Pb. 5250 Majorstuen, 0303 Oslo Phone: +47 23 08 80 00 e-mail: post@epd-norge.no

Declaration number:

NEPD-3387-2007-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 Hydro

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 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.

Anne Rønning, Norsus AS (no signature required)

Owner of the declaration:

Saint-Gobain Sweden AB, Scanspac Contact person: Christian Nilsson Phone: +46 (0)19-46 34 00 e-mail: ehs.scanspac@dalapro.com

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: 07.03.2022

Valid to: 07.03.2027

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 Hydro is a ready-mixed hand filler for use in wet rooms or where an extra durable surface is desired. A high binder content in the filler gives the product a hard, water repellent surface, and maximum adhesion to the substrate. The product is suitable for joint filling and thin smoothing. Suitable for most substrates in new construction and renovation.

Blue color.

Nordic Ecolabelled.

Product specification

Packaging:

Dalapro Hydro: 10 litre bucket, 3 litre bucket and 400 ml tube. 10 litre and 3 litre bucket is packaged in a bucket manufactured in 100 % recyclable plastic and consists of at least 90 % recycled plastic. All calculations in this EPD is made with the recycled 10 litre bucket. It represent the majority of the market.

Materials	%
Water	30-50
Filler-dolomite	30-50
Filler-cenospheres	2,5-10
Filler-perlite	2,5-10
Thickener	1-5
Additive	1-3
Packaging	
Pallet	
Binder	2,5-10

Technical data:

TECHNICAL DATA
Binding agent: Latex co-polymer
Solvent: Water
Grain size: Max. 0.2 mm
pH: Approx. 9
Colour: Blue

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 Hydro

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:

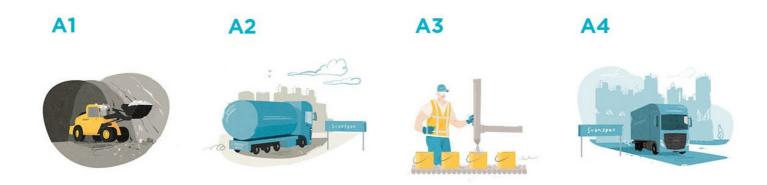
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other 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
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
Cellulose Ether	ecoinvent 3.4	Database	2019
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.



Additional technical information:

Suitable for embedding paper tape. Combined with Certain-Teed 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. When finishing plasterboard: follow recommendations in accordance with EN 13963 or National guidlines for finishing plasterboards.



Unit

Unit

kWh

Value

Value

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

Assembly (A5)	Use (B1)
Assembly (AS)	086 (01

	Unit	Value
Auxiliary	kg	
Water consumption	m ³	
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)/Refurbishment (B5)
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	•	Unit	Value	
Maintenance cycle*	O.C.			Replacement cycle*
Auxiliary	CV	a.		Electricity consumption
Other resources		Y/IC)_	Replacement of worn parts
Water consumption	Scen	m ³	36	* Described above if relevant
Electricity consumption		kWh	.,(6	r .
Other energy carriers		MJ		47.
Material loss		kg		41.Ad are
VOC emissions		kg		" are

End of Life (C1, c

Electricity consumption	kWh	.16	T 4		
Other energy carriers	MJ		47.		
Material loss	kg		Ad		
VOC emissions	kg		'aro		
Operational energy (B6) and water consum	ption (B7)		End of Life (C1, C) INC/LUC CO Reuse		
	Unit	Value	· /ha	Unit	Value
Water consumption	m ³		Hazardous waste disposed	kg	
Electricity consumption	kWh		Collected as mixed construction was	kg	
Other energy carriers	MJ		Reuse	kg	
Power output of equipment	kW		Recycling		
			Energy recovery		
			To landfill	kg	

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					I/tkm	
Other Transportation					I/tkm	



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)

F	Product stage			Construction installation stage		User stage						End of	life stage		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	A3	A4	A5	B1	B2	В3	В4	B5	В6	В7	C1	C2	C3	C4	. D
Х	Х	Х	Х													

Environmental impact

Parameter	Unit	A1-A3	A4
GWP	kg CO ₂ -eq	3,13E-01	2,48E-02
ODP	kg CFC11 -eq	3,49E-08	5,10E-09
POCP	kg C ₂ H ₄ -eq	9,54E-05	3,88E-06
AP	kg SO ₂ -eq	1,20E-03	6,41E-05
EP	kg PO ₄ ³⁻ -eq	3,47E-04	8,84E-06
ADPM	kg Sb -eq	7,99E-07	5,91E-08
ADPE	MJ	9,81E+00	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	1,97E+00	7,41E-03
RPEM	MJ	8,97E-01	0,00E+00
TPE	MJ	2,87E+00	7,41E-03
NRPE	MJ	8,18E+00	4,20E-01
NRPM	MJ	2,67E+00	0,00E+00
TRPE	MJ	1,09E+01	4,20E-01
SM	kg	4,53E-02	0,00E+00
RSF	MJ	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	
W	m ³	7,95E-03	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 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; 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
HW	kg	3,72E-03	2,24E-07
NHW	kg	1,36E-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*10-3 = 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*10-3 = 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

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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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