

ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Program operator: The Norwegian EPD Foundation Publisher: The Norwegian EPD Foundation Declaration number: NEPD-3250-1891-EN Registration number: NEPD-3250-1891-EN	Owner of the declaration:	Jotun A/S
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Valid to: 22.11.2026	Valid to:	22.11.2026

Jotafloor SF Primer E, Jotun Paints (Malaysia) Sdn. Bhd.

Jotun A/S

JOTUN

www.epd-norge.no



Jotafloor SF Primer E



General information

Product:

Jotafloor SF Primer E, Jotun Paints (Malaysia) Sdn. Bhd.

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-3250-1891-EN

ECO Platform reference number:

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A1:2013 serves as core PCR. IBU PCR Part B for coatings with organic binders

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 Jotafloor SF Primer E, Jotun Paints (Malaysia) Sdn. Bhd.

Declared unit with option:

A1,A2,A3

Functional unit:

Verification:

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 Ronnig

Senior Research Scientist, Anne Rønning

(Independent verifier approved by EPD Norway)

Owner of the declaration:

Jotun A/S Contact person: Anne Lill Gade Phone: +47 33 45 70 00 e-mail: anne.lill.gade@jotun.no

Manufacturer:

Jotun Paints (Malaysia) Sdn. Bhd. Lot 7, Persiaran Perusahaan, Section 23 40300 Shah Alam, Selangor Malaysia

Place of production:

Jotun Paints (Malaysia) Sdn. Bhd. Lot 9143, PN 38500, Kawasan Perindustrian Nilai 71800 Nilai, Negeri Sembilan Malaysia

Management system:

ISO 9001:2008 Certificate nr: 0044915-00, ISO 14001:2004 Certificate nr 0044914-00, ISO 45001: 2018 Certificate nr: 0098139

Organisation no:

923 248 579

Issue date: 22.11.2021

Valid to: 22.11.2026

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.

Author of the Life Cycle Assessment:

The declaration is developed using EPD tool lca.tools ver EPD2020.11, developed by LCA.no AS Approval:

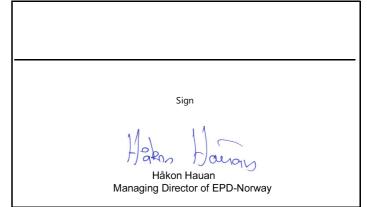
Collected/registered by:

Internal verification by:

Ken Gudvangen

Cleo Alves Otterbech

Approved:





Product

Product description:

Jotafloor SF Primer E is a two component amine cured solvent free epoxy coating. It ensures very good adhesion on most concrete floors in atmospheric environments only.

The declared product is a primer for all Jotafloor products in atmospheric environments. Specially designed for high build floor coatings on properly prepared concrete substrates and for use with the traffic deck system for heavy duty traffic, areas such as ramps, car parks, parking bays, pedestrian walkways, roof decks and industrial floors.

Jotafloor SF Primer is recommended for cold stores, laboratories, hospitals, food and beverage plants, kitchens, high tech manufacturing facilities, dairies, warehouses, factories and hangars. This product when used with Jotafloor Non Slip Aggregates, is suitable for filling and repairing of cracks, undulations and surface imperfections.

Product specification

For information on Green Building Standard credits, see "Additional Information" on page 4.

The material composition of the declared mixed product is given below:

Materials	%
Binder	50-75
Filler	10-25
Solvent	10-25
Additive	5-10

Technical data:

Avoid mixing under direct sunlight. The temperature of the paint shall be 20- 30° C when the paint is mixed.

Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor. A slow-speed mechanical mixing agitator or equivalent tool with the speed of 300-400 rpm, shall be used for mixing. The individual components should be thoroughly stirred separately till homogenous.

Product mixing ratio (by volume): Jotafloor SF Primer E Comp A: 3 part(s) Jotafloor SF Primer E Comp B: 1 part(s)

Density comp A: 1.04 g/cm³ Density comp B: 1.02 g/cm³ Solids by volume: 98 ± 2 %.

Film thickness per coat: Dry film thickness: 150 - 300 μ m Wet film thickness: 150 - 300 μ m

Theoretical spreading rate: 6.7 - 3.3 m²/l

The most representative and worst case formulation produced at the manufacturing site is chosen for this EPD. For products with a selection of colours, this will be the formulation with the highest content of titanium dioxide.

The product packaging is based on an average sized metal packaging, including secondary packaging such as pallets and plastic wrapping.

For safety, health and environmental conditions, see the Safety Data Sheet for the declared product on www.jotun.com.

For information on technical data, application and use of the product, see the Technical Data Sheet for the declared product on www.jotun.com.

Market:

Global. Transport to market is not included in this EPD.

Reference service life, product

The reference service life of the product is highly dependent on the conditions of use.

Estimated service life, object

The coated object is not declared.

LCA: Calculation rules

Declared unit:

1 kg Jotafloor SF Primer E, Jotun Paints (Malaysia) Sdn. Bhd.

Cut-off criteria:

All major raw materials and essential energy is included. The production process for raw materials and energy flows with very small amounts (less than 0.1 % dry matter) are not included. In total, more than 99% of the material input is included. These cut-off criteria do not apply for non-energy related emissions (such as wastes, hazardous materials and substances).

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy, water and waste production in-house is primarily allocated equally among all products through mass allocation. Specific allocation was performed for certain waste flows according to information provided by the site manager. VOC emissions have been allocated entirely to the production of solvent based paints. 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:

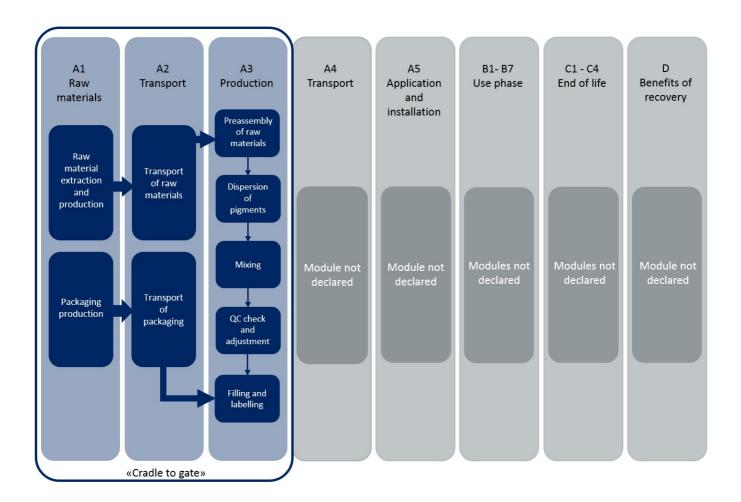
The CEPE database is used as basis for the raw material composition. Specific data for the product composition and raw material amounts has been provided by the manufacturer and represents the production of the declared product. Production site data was collected in 2015. Representative data from ecoinvent v3.2 was used for other processes. The data quality for the material input in A1 is presented in tabular form.

Materials	Source	Data quality	Year
Packaging	Østfoldforskning	Database	2017
Jotafloor SF Primer E Comp A, Jotun Paints (Malaysia) Sdn. Bhd.	Owner of EPD	Database	2021
Jotafloor SF Primer E Comp B, Jotun Paints (Malaysia) Sdn. Bhd.	Owner of EPD	Database	2021



System boundary:

The flowchart in the figure below illustrates the system boundaries for the analysis, in accordance with the modular principle on EN 15804. The analysis is a cradle-to-gate (A1-A3) study.



Additional information:

The declared product contributes to Green Building Standard credits by meeting the following specific requirements:

LEED®v4 (2013)/ LEED®v4.1 (2020)

MR credit: Building product disclosure and optimization

- Material Ingredients, Option 2: Material Ingredient Optimization, International Alternative Compliance Path - REACH optimization: Fully inventoried chemical ingredients to 100 ppm and not containing substances on the REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.

- Environmental Product Declarations. Product-specific Type III EPD (ISO 14025;21930, EN 15804) for Jotun Paints (Malaysia) Sdn. Bhd.

BREEAM International (2016)

Mat 01: Product-specific Type III EPD (ISO 14025;21930, EN 15804) for Jotun Paints (Malaysia) Sdn. Bhd.

Additional certificates and approvals may be available on request.



LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD. This is a cradle to gate (A1-A3) EPD with no declared modules after the factory gate. Transport from place of production to user (A4) has to be calculated by the user.

Гуре	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit		Value (I/t)
Truck					l/tkm		
Railway					l/tkm		
Boat					l/tkm		
Other Transrortation					l/tkm		
Assembly		Use	B1)				
	Unit	Value .				Unit	Value
Auxiliary	kg						
Water consumption	m ³						
Electricity consumption	kWh						
Other energy carriers	2 MJ						
Material loss	'dria						
Output materials from waste treatment	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
Dust in the air	aft.						
VOC emissions	10	rA-					
VOC emissions Maintenance (B2)/Repair (B3)	Unit	AI-A3	ment (B4)/Ref	urbishment (B5)		Unit	Valu
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle*	Unit	Value A:	Pent (B4)/Ref	urbishment (B5)		Unit	Valu
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary	Unit kg		The Doc	urbishment (B5)		Unit kWh	Valu
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary Other resources	Unit kg kg	Value	rent (B4)/Ref	urbishment (B5)			Valu
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary Other resources Water consumption	Unit kg kg m ³	Value Value Elect * Des	rich. acement Cribed above h	incl.			Valu
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary Other resources Water consumption Electricity consumption	Unit kg m ³ kWh	Value Value Elect Repl * Des	rich. accement	include			Valu
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary Other resources Water consumption Electricity consumption Other energy carriers	Unit kg m ³ kWh MJ	Value Value Elect Repl * Des	rici.	included			Value
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary Other resources Water consumption Electricity consumption Other energy carriers Material loss	Unit kg kg m ³ kWh MJ kg	Value	rich.	included	γ		Value
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary Other resources Water consumption Electricity consumption Other energy carriers Material loss VOC emissions	kg m ³ kWh MJ MJ MJ MJ kg kg kg kg kg kg kg kg kg kg kg kg kg	Value	rich. acement cribed above h	included	γ		Value
			rici. acement cribed above 1.		γ		Valu
VOC emissions Maintenance (B2)/Repair (B3) Maintenance cycle* Auxiliary Other resources Water consumption Electricity consumption Other energy carriers Material loss VOC emissions Operational energy (B6) and water consu					γ		
	umption (B7)	End Value		4)	γ	KWh	Value
Operational energy (B6) and water const Water consumption	umption (B7) Unit	Value . Haza	of Life (C1, C3, C4	4) osed	×	KWh Uns	
Operational energy (B6) and water const Water consumption Electricity consumption	umption (B7) Unit m ³	Value . Haza	of Life (C1, C3, C4 rdous waste dispo cted as mixed co	4) osed	×	kWh Uns kg	
Dperational energy (B6) and water const Water consumption Electricity consumption Other energy carriers	umption (B7) Unit m ³ KWh	Value . Haza Colle Reus	of Life (C1, C3, C4 rdous waste dispo cted as mixed co	4) osed	→ →	kWh Un kg kg	
Operational energy (B6) and water const	umption (B7) Unit m ³ kWh MJ	Value . Haza Colle Reus Recy	of Life (C1, C3, C4 rdous waste dispo cted as mixed con e	4) osed	✓	KWh Uns kg kg	

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



LCA: Results

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

Pr	oduct sta	age	instal	uction lation ige			ų	Jser stag	e				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	W aste processing	Disposal	Reuse-Recovery- Recycling- potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	. D
Х	Х	Х	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	· MND

Environmental impact

Parameter	Unit	A1-A3
GWP	kg CO ₂ -eq	5,21E+00
ODP	kg CFC11 -eq	4,62E-07
РОСР	kg C ₂ H ₄ -eq	4,78E-03
AP	kg SO ₂ -eq	2,30E-02
EP	kg PO ₄ ³⁻ -eq	8,05E-03
ADPM	kg Sb -eq	2,85E-05
ADPE	MJ	9,32E+01
GWP Global warming potential: ODP Depletion potential of the stratospheric ozo	ne laver. POCP Formation potential of tropospheric photochemic	al oxidants

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
RPEE	MJ	9,23E+00
RPEM	MJ	9,18E-01
TPE	MJ	1,01E+01
NRPE	MJ	9,89E+01
NRPM	MJ	0,00E+00
TRPE	MJ	9,89E+01
SM	kg	0,00E+00
RSF	MJ	0,00E+00
NRSF	MJ	0,00E+00
W	m ³	8,70E-01

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; 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
нм	kg	5,17E-05
NHW	kg	2,17E+00
RW	kg	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
CR	kg	0,00E+00
MR	kg	1,34E-02
MER	kg	1,89E-03
EEE	MJ	INA*
ETE	MJ	INA*
CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exp	orted thermal energ	ay 🔤
"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed		



Additional 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
Electricity, Malaysia (kWh)	ecoinvent 3.3 Alloc Rec	861,04	g CO2-ekv/kWh

Dangerous substances

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

Indoor environment

The declared product is emission tested by RISE Research Institutes of Sweden/SP Technical Research Institute of Sweden or Eurofins in accordance with California Department of Public Health (CDPH) Standard Method v1.2–2017.

Bibliography

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CDPH method 1.2 (2017): Standard method for the testing and evaluation of volatile organic chemical emissions from indoor sources. California Department of Public Health LEED® v4.1 (2019): LEED® v4.1 for Building design and construction, U.S. Green Building Council®

LEED® v4 (2013): LEED® v4 for Building design and construction, U.S. Green Building Council®

REACH (2006): Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006. REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list

epd-norge.no	Program operator and publisher	Phone:	+47 23 08 80 00
	The Norwegian EPD Foundation	e-mail:	post@epd-norge.no
	Post Box 5250 Majorstuen, 0303 Oslo,Norway	web:	www.epd-norge.no
JOTUN	Owner of the declaration	Phone:	+47 33 45 70 00
	Jotun A/S	e-mail:	anne.lill.gade@jotun.no
	Hystadveien 167 3209 Sandefjord	web:	www.jotun.no
Ostfoldforskning	Author of the Life Cycle Assessment	Phone:	+47 69 35 11 00
	Østfoldforskning AS	e-mail:	post@ostfoldforskning.no
	Stadion 4 1671 Kråkerøy	web:	www.ostfoldforskning.no
LCA	Developer of EPD generator	Phone:	+47 916 50 916
	LCA.no AS	e-mail:	post@lca.no