ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-BST-20230002-IBC1-EN
Issue date	09/02/2023
Valid to	08/02/2028

Bostik Nordic Standard Floor Preparation group BOSTIK



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1. General Information

BOSTIK

Programme holder

IBU – Institut Bauen und Umwelt e.V. Hegelplatz 1 10117 Berlin Germany

Declaration number EPD-BST-20230002-IBC1-EN

This declaration is based on the product category rules:

Mineral factory-made mortar, 09.2022 (PCR checked and approved by the SVR)

Issue date

09/02/2023

Valid to 08/02/2028

Man liten

Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)

Man H Wals

Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.))

2. Product

2.1 Product description/Product definition

Bostik Nordic Standard Floor Preparation group includes the following Bostik products:

Technis C310 Dry Mortar

- SL C300 Thick Flow
- SL C310 Thick Flow Fiber
- Bostik Floor Screed 1012 TFF SILO
- SL C360 Flow

They are screeds and self-levelling compounds based on a blend of cements and organic binders. They are supplied in 20 kg bags, 1000 kg big bags and bulk.

There are no harmonised legal provisions at EU level for the use and application of these products. Swedish national provisions therefore apply.

2.2 Application

Bostik Nordic Standard Floor Preparation products are intended for different type of structures (including sloping structures) and allow for a variety of repairs on fixed and clean substrates in interiors. Usually used as

Bostik Nordic Standard Floor Preparation group

Owner of the declaration Bostik AB, Box 903, SE-251 09 Helsingborg, Sweden

Declared product / declared unit 1kg of Bostik Nordic Standard Floor Preparation product.

Scope:

The Environmental Product Declaration refers to Bostik Nordic Standard Floor Preparation group. Data and calculation values refer to the BOSTIK plant located in HELSINGBORG in Sweden. It is based on data from 2020 which complies with the annual average.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of *EN* 15804+A2. In the following, the standard will be simplified as *EN* 15804.

Verification

The standard *EN 15804* serves as the core PCR Independent verification of the declaration and data according to *ISO 14025:2011* internally x externally

Vito D'Incognito (Independent verifier)

an underlayment before a final layer of thinner SLC is applied, except for parquet floors where the standard products can be used as a final layer.

2.3 Technical Data

Bostik Nordic Standard floor preparation products comply with the European standard *EN 13813:2002*, which specifies the performance requirements for these cementitious bases, in particular for compressive and flexural strengths.

The density of the Bostik Nordic Standard floor preparation products is between 1.9 and 2.2 g/cm³, other relevant technical data can be found in the Bostik technical documentation available on the Bostik website:

https://bostiksdsinternal.thewercs.com/

Constructional data

Name	Value	Unit
Compressive strength	20 - 25	N/mm ²
Flexural strength	5-6	N/mm ²



2.4 Delivery status

Bostik Nordic Standard floor preparation products are supplied in 20 kg bags, 1000 kg big bags of powdered product or in bulk. This powder must be mixed with the correct amount of water and homogenised before it is poured onto the floor.

2.5 Base materials/Ancillary materials

The composition of the products included in the Bostik Nordic Standard floor preparation group is as follows:

- Filler materials: 75-85 %
- Inorganic binder: 15-25 %
- Additives: < 1 %
- Dispersion powder: < 1 %

Bostik Nordic Standard floor preparation products are low volatile organic compounds (VOC) emission products. They contribute to preserving the indoor air quality of the buildings.

They are certified M1 Emission class according to "*The building Information Foundation RTS*" (Finland). Cf. Certificates n°3863 and 3864 of the 17th February 2022.

REACH regulation:

1) This product contains substances listed in the candidate list (date: 05.09.2022) exceeding 0.1 percentage by mass: no.

2) This product contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass: no.

3) Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) Ordinance on Biocide Products No. 528/2012): no.

Bostik products have safety data sheets that can be consulted at:

https://bostiksds.thewercs.com/default.aspx.

For Bostik, substances, contained in the Floor preparation products, which incorporate more than 0.1 % according to the candidate list of the *REACH* regulation, are indicated in chapters 3 and 15 of the Safety Data Sheet.

In this study, Bostik Nordic Floor Preparation products do not contain SVHC >0.1 %

2.6 Manufacture

The Nordics Standard floor preparation products are manufactured in manufactured in batch operation from the ingredients and packed into the packaging, in Bostik Helsingborg plant (Sweden). The plant is certified to the Quality Management System in accordance with *EN ISO 9001*.

2.7 Environment and health during manufacturing

Whenever dust is produced in the factory, it is directed to a filtration system, taking into account the limit values applicable to the workplace and using the corresponding extraction facilities. **Powder residue:** Residual product is returned to the production process as far as possible.

Air: The process air is dedusted independently, with values well below the legal requirements.

Water: The production process does not use water. **Noise:** The noise level in the production facility is below the required legal limit.

Waste: The main types of waste are powdered wastes, which are disposed of as inert material in landfills.

2.8 Product processing/Installation

Nordic floor preparation products are automatically removed from a silo or manually taken from the bags, mixed with the right amount of water and homogenized, before pouring on the floor. The spread is made with a trowel depending on local circumstances.

The products are supplied in powder form and frequent inhalation of this type of dust over a long period of time increases the risk of developing lung disease. Therefore, during the installation of the product, this risk should be avoided by taking personal protective measures as indicated in the safety data sheet. Due to the different contents of cement hydrates, binders and quartz in the powdered product, it is generally strongly alkaline when mixed with water. In case of prolonged contact, this alkaline state can cause severe damage to the eyes and skin. Therefore, any contact with the eyes or skin should be avoided by taking personal protective measures, and the information described in the safety data sheet should be followed.

All hazards and protective measures are listed in the safety data sheet for each product and are available at: https://bostiksds.thewercs.com/default.aspx.

2.9 Packaging

Bostik Nordic Standard floor preparation products are packaged in 20 kg bags or 1000 kg big bags, or available in bulk.

20 kg sacks were modelled as packaging (worst case approach) and their composition (90 % of paper and 10% of polyethylene) was taken into account in modelling.

The pallets of 20 kg bags are shrink-wrapped (with PEfilm) and unloaded from the conveyor by forklifts truck before being sent to the customer.

2.10 Condition of use

Nordic floor preparation products are durable when used in accordance with the recommended application and the designated purpose. No environmental impact is incurred by the product during use.

2.11 Environment and health during use

BOSTIK Nordic Standard Floor Preparation product emissions have been approved by "*The building Information Foundation RTS*" (Finland) and classified M1 Emission class (Certificates of the 17th February 2022). The decision is in line with the requirements laid down in the Classification of Indoor Climate 2018 and the Classification of Building Materials: General Rules.

No risks are known for water and soil if the products are used as designated.



2.12 Reference service life

The service life of Floor Preparation products is based on the service life of the concrete on which it is installed.

According to the Bundesinstitut für Bau-, Stadt- und Raumforschung (*BBSR*) table "Service lives of components for life cycle assessment according to BNB", the service life of Floor Preparation products is > 50 years.

(https://www.nachhaltigesbauen.de/austausch/nutzung sdauern-von-bauteilen/)

2.13 Extraordinary effects

Fire

According to *Commission Decision 94/611/EC*, modified mineral binders with finely distributed organic components must always be classified in reaction to fire class A1 "No contribution to fire" according to *DIN EN 135011*.

Fire protection

Name	Value
Building material class	-
Burning droplets	-
Smoke gas development	-

Water

3. LCA: Calculation rules

3.1 Declared Unit

This EPD refers to the declared unit of 1 kg of Bostik Nordic Standard floor preparation group, applied into the building with a density comprises between 1.9 and 2.2 kg/m³ in accordance with the *IBU PCR part B* for Mineral Factory-Made Mortars.

The LCA has been calculated for each product in the group and this EPD gives the impacts average of the group.

The functional unit is the average quantity of product applied per m^2 . This quantity depends on the thickness of the levelling required. Together with the productivity and the conversion factor, this functional unit can be calculated which gives a better view of the impact of the products.

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	kg
Gross density	1.9 - 2.2	kg/m³
Productiveness	54	kg/m^2
Conversion factor to 1kg	0.02	-

3.2 System boundary

This LCA is published as a cradle-to-grave EPD, according to *EN15804* and includes the modules A1-A3, A4, A5, C2, C4 and D:

 A1 Extraction/ production of raw materials, packaging and auxiliaries, BOSTIK Nordic Standard Floor Preparation product is stable in terms of structure and is not subject to any changes in form when exposed to water and drying. No substances are washed out which could be hazardous to water.

Mechanical destruction

The mechanical destruction of BOSTIK Nordic Standard Floor Preparation products does not generate any decomposition products harmful to the health or the environment. Any dust emissions that may be generated must be avoided by appropriate measures (e.g. humidification).

2.14 Re-use phase

There is no reuse, recovery or recycling of the BOSTIK Nordic Standard Floor Preparation products.

2.15 Disposal

The Bostik Nordic Standard floor preparation products are inert waste whose end-of-life depends on its support. In this case, the support is concrete, also an inert waste, so its end-of-life is considered to be an inert landfill (100 %).

The following waste code according to the *European List of Waste* (2003/33/EC) can apply: Mineral filler and levelling compound: *EWC* 17 01 07.

2.16 Further information

Technical and safety data sheets, VOC Emission certificates, and further information are available at https://www.bostik.com/

- A2 Transport of the raw materials to the plant,
- A3 Production, including energy, auxiliaries, packaging and waste treatment.

According to the *EN 15804*+*A*2, modules A1, A2 and A3 are declared as an aggregated module A1-A3.

- A4 Transport of the product to the construction site,
- A5 Product installation into the building, with also water consumption and packaging and waste water disposal (incineration for packaging materials),
- C2 Transport to waste processing (while deconstruction with concrete in place)
- C4 Inert product landfilling,
- D Credits from incineration of packaging materials.

3.3 Estimates and assumptions

Where no specific /*GaBi*/ processes were available, the individual recipe ingredients of formulation were estimated on the basis of information provided by the manufacturer or literary sources.

3.4 Cut-off criteria

All raw materials submitted for the formulations including transport and packaging, and production data were taken into consideration. The manufacture of machinery, plants and other infrastructure required for the production of the products under review, as well as energies were not taken into consideration in the LCA.



3.5 Background data

Data from the *Gabi* professional database (2022.2) and *ecoinvent* 3.8 database were used as background data.

The information about the documentation is available in *Gabi* documentation online:

https://sphera.com/product-sustainability-gabi-data-search/

3.6 Data quality

Specific products were calculated for this EPD and the average values were calculated for the LCA results of the group. Sensitivity analysis confirmed the deviation within the group is < 20 %.

The basic datasets are less than 5 years old, and key raw materials data were provided by suppliers.

Production data and packaging are based on details provided by the manufacturer.

3.7 Period under review

Reference year for manufacturing data, the average distance to customers (in A4): year 2020. Reference year for formulation products: 2022.

3.8 Allocation

No allocations were applied for production. A multiinput allocation with a credit for electricity and thermal energy was used for the incineration of packaging materials. The credits achieved through packaging disposal are declared in Module D.

3.9 Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account.

The *Gabi* version 2022.2 with the "Professional database" (2022) and *ecoinvent* 3.8 database were used as background data.

4. LCA: Scenarios and additional technical information

Characteristic product properties Information on biogenic carbon

Our products do not contain any biobased materials. Therefore, the biogenic carbon content of Bostik Nordic Standard floor preparation products is zero. As mentioned in the 2.9 part, the finished products are sold in 20 kg bags and we consider the biogenic carbon of the wood pallets and the paper bags.

Information on describing the biogenic Carbon Content at factory gate

Name	Value	Unit
Biogenic carbon content in product	0	kg C
Biogenic carbon content in accompanying packaging	0.00189	kg C

The use of packaging material is declared in this EPD in Module A3.

Module A5 declare the disposal of the packaging materials on the construction site.

Transport to the building site (A4)

Name	Value	Unit
Transport distance	600	km
Capacity utilisation (including empty runs)	55	%
Gross density of products transported	1.9 - 2.2	kg/m³
Payload capacity	17.3	t

Installation into the building (A5)

Name	Value	Unit
Water consumption	0.0021	m ³
Electricity consumption	0.0173	kWh
Material loss	0	kg
Lange Doute a sublicition.		

Losses During application:

- The powder products are delivered in bulk, losses are therefore considered to be negligible.

- The applied product (powder + water), the walls of the buckets are scraped so that there is no loss of product; losses are considered negligible.

End of life (C1-C4)

Name	Value	Unit
Collected as mixed construction waste	1.21	kg
Landfilling as inert matter	1.21	kg
The value shave 1 kg is due to the		at a n al curina a

The value above 1 kg is due to the use of water during the assembly step.

Reuse, recovery and/or recycling potentials (D), relevant scenario information

NameValueUnitThe Nordics floor preparation products have no
considerable benefits due to recycling or/and reuse.For the different incineration credits (electrical and
thermal) they are considered and included in the
calculation.



5. LCA: Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

PROD	PRODUCT ST		CONST ON PRO STA	RUCTI DCESS		KELE		SE STAG	GE			EN	ND OF LI	FE ST/		BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	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	Х	Х	X	Х	ND	ND	MNR	MNR	MNR	ND	ND	Х	X	X	Х	Х
									acco	rding	to EN ′	15804-	⊦A2: 1	kg of	Bostik	Nordic
Stand	ard fl	loor p	repara	tion g	roup (impac	ts ave	erage)								
Core In	dicator	' L	Jnit	A1	-A3	A4		A5		C1	C	2	C3		C4	D
GWF			:0 ₂ -Eq.]	2.24		5.09E		7.45E-3		0.00E+0	5.14	IE-3	0.00E+		1.76E-2	-2.01E-3
GWP	-tossil biogenic		:O₂-Eq.] :O₂-Eq.]	2.29	9E-1 3E-3	4.98E		2.05E-3 5.40E-3		0.00E+0 0.00E+0		3E-3)E-5	0.00E+		1.81E-2 -5.36E-4	-2.00E-3 -1.58E-6
GWP	-luluc	[kg C	:0 ₂ -Eq.]		3E-3	2.83E		1.27E-7		0.00E+0		E-5	0.00E+		3.34E-5	-1.34E-7
O			C11-Eq.]	1.96		3.04E-		2.62E-15		0.00E+0		E-16	0.00E+		4.25E-14	-2.18E-15
A EP-fres			<u>H⁺-Eq.]</u> P-Eq.]	7.07	7E-4	3.02E		2.06E-6 3.74E-8		0.00E+0 0.00E+0		5E-5 3E-8	0.00E+		1.28E-4 3.06E-8	-1.24E-6 -3.83E-9
EP-m			N-Eq.]	2.73	3E-4	1.48E		3.38E-7		0.00E+0)E-5	0.00E+		3.28E-5	-3.65E-9
EP-ter	restrial		N-Eq.]	2.89		1.64E	-3	8.65E-6	().00E+0	1.66)E-4	0.00E+		3.60E-4	-4.59E-6
PO			IVOC-Eq.]			2.81E		1.81E-6		0.00E+0		3E-5	0.00E+		9.96E-5	-1.21E-6
AD AD			Sb-Eq.] MJ]	2.05	5E-7 E+0	4.24E		1.59E-10		0.00E+0	4.28	E-10 5E-2	0.00E+		1.85E-9 2.37E-1	-1.71E-10 -4.88E-2
W		-	vorld-Eq	1												
VVI		dep	orived]		3E-2	4.55E		-2.73E-4).00E+0)E-5	0.00E+		1.98E-3	-1.57E-4
				- IND	ICATO	ORS T	O DES	CRIB	E RES acts	OUR	CE USE				on potentia 15804	al +A2: 1 kg of
Indicat	-	Jnit	A1-A3		A4		A5		C1		C2		C3		C4	D
PERE		MJ]	0.45		0.04		0.01		0.00		0.00	_	0.00		0.04	-0.02
PERN PERT		MJ] MJ]	0.00		0.00		0.00		0.00		0.00	_	0.00	_	0.00	0.00
PENR		MJ]	2.51		0.68		0.01		0.00		0.00		0.00		0.04	-0.02
PENR	M [MJ]	0.00		0.00		0.00		0.00		0.00		0.00		0.00	0.00
PENR		MJ]	2.39		0.68		0.02		0.00		0.07		0.00		0.24	-0.05
SM RSF		kg] MJ]	6.42E-6	5	0.00E+0)	0.00E+0)	0.00E+0)	0.00E+0 0.00	0	.00E+0 0.00	0	.00E+0 0.00	0.00E+0 0.00
NRSF		MJ]	3.28E-2	2	0.00E+0)	0.00E+0)	0.00E+0)	0.00E+0	0	.00E+0	0	.00E+0	0.00E+0
FW		m ³]	8.99E-4		4.36E-5		2.11E-4		0.00E+0		4.40E-6		.00E+0		6.01E-5	-2.66E-5
PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy resources used as raw materials; PERT = Total use of non-renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 kg of Bostik Nordic Standard floor preparation group (impacts average)																
Indicat			A1-A3		A4	or pre	A5	on gru	<u>ир (п</u> С1	mpact	C2		C3		C4	D
HWD	-	kg]	1.84E-6		3.26E-12	2	A5 6.20E-13	3	0.00E+0)	3.29E-13	0	.00E+0	1	22E-11	-2.99E-12
NHW		kg]	2.26E-2		9.75E-5		2.55E-4		0.00E+0		9.84E-6		.00E+0	_	.21E+0	-2.79E-5
RWD		kg]	8.49E-5		8.38E-7		6.16E-6		0.00E+0		8.45E-8		.00E+0		2.63E-6	-7.29E-6
CRU		kg]	0.00		0.00		0.00		0.00		0.00	_	0.00		0.00	0.00
MFR MER		kg] kg]	0.00		0.00		0.00		0.00		0.00	_	0.00	+	0.00	0.00
EEE		MJ]	0.00		0.00		0.00		0.00		0.00		0.00	+	0.00	0.00
EET		MJ]	0.00		0.00		0.00		0.00		0.00		0.00		0.00	0.00
HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 kg of Bostik Nordic Standard floor preparation group (impacts average)																



Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease Incidence]	7.91E-9	1.75E-9	1.37E-11	0.00E+0	1.76E-10	0.00E+0	1.58E-9	-1.06E-11
IRP	[kBq U235- Eq.]	1.36E-2	1.23E-4	7.19E-4	0.00E+0	1.24E-5	0.00E+0	2.92E-4	-6.33E-4
ETP-fw	[CTUe]	1.31E+0	4.71E-1	1.45E-2	0.00E+0	4.75E-2	0.00E+0	1.33E-1	-7.72E-3
HTP-c	[CTUh]	4.44E-11	9.52E-12	5.00E-13	0.00E+0	9.61E-13	0.00E+0	2.02E-11	-3.26E-13
HTP-nc	[CTUh]	2.97E-9	5.65E-10	2.49E-11	0.00E+0	5.70E-11	0.00E+0	2.24E-9	-6.38E-12
SQP	[-]	1.15E+0	2.33E-1	1.01E-2	0.00E+0	2.36E-2	0.00E+0	4.92E-2	-8.61E-3
P	PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential								
Caption									

Disclaimer 1 – for the indicator "Potential Human exposure efficiency relative to U235". This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators "abiotic depletion potential for non-fossil resources", "abiotic depletion potential for fossil resources", "water (user) deprivation potential, deprivation-weighted water consumption", "potential comparative toxic unit for ecosystems", "potential comparative toxic unit for humans – cancerogenic", "Potential comparative toxic unit for humans - not cancerogenic", "potential soil quality index". The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

6. LCA: Interpretation

The production stage (A1-A3) is the most impactful step in the product life cycle. Its relative contribution is over 70 % in some categories (such as GWP-total, ODP, WDP, ...). The most significant contribution is the extraction/manufacturing of raw materials, with the main contribution coming from cements and dispersible powders; and to a lesser extent to their transport.

The Global Warming Potential (GWP) and Acidification (AP) are dominated by the cement contribution (ca.50

7. Requisite evidence

7.3 VOC emissions

BOSTIK Nordic Standard Floor Preparation product emissions have been approved by "The building Information Foundation RTS" (Finland). Results: Classified M1 Emission. Certificates n°3863 and n°3864 of the 17th February 2022 (classification valid until 28.01.2025). %) and dispersible powders (ca. 20 %), even if they are used only up to 1 %. Only the Ozone Depletion Potential (ODP) is not dominated by cements, they only account for less than 0.01 % but by the dispersible powders, the lithium carbonate and carboxymethyl cellulose which account for 36 %, 34 % and 22 % respectively.

Transport of the finished product (A4) represents around 20 % of the total impact and the end of life (C1-C4) less than 10 %.

7.1 Leaching

Measurement of leaching performance (eluate analysis) indicating the measurement process. Example:

based on DIN EN 12457/1-4 or DIN/CEN TS 14405 combined with the Council decision dated 19.12.2002 (2002/33/EC).

8. References

DIN EN 12457-1

DIN EN 12457-1:2003-01, Characterization of waste -Leaching; Compliance test for leaching of granular and sludges - Part 1: One stage batch test at a liquid to solid ration of 2 l/kg with particle size below 4 mm (without or with size reduction)

DIN EN 12457-2

Characterization of waste - Leaching - Compliance test for leaching of granular waste materials and sludges – Part 2: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 4 mm (without or with size reduction)

DIN EN 12457-3

Characterization of waste - Leaching - Compliance test for leaching of granular waste materials and sludges – Part 3: Two stage batch test at a liquid to solid ratio of 2 l/kg and 8 l/kg for materials with high solid content and with particle size below 4 mm (without or with size reduction)

DIN EN 12457-4

Characterization of waste - Leaching - Compliance test for leaching of granular waste materials and sludges – Part 4: One stage batch test at a liquid to solid ratio of 10 l/kg for materials with particle size below 10 mm (without or with size reduction)

EN 13813



EN 13813: 2002, Screed material and floor screeds - Screed material - Properties and requirements.

EN 135011

Commission Decision 94/611/EC

ISO 14025

DIN EN ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

ISO 14040

DIN EN ISO 14040: 2006, Environmental management – Life cycle assessment – Principles and framework.

ISO 14040

ISO 14040:2006 (German and English versions EN)

ISO 14044

DIN EN ISO 14044: 2006, Environmental management – Life cycle assessment – Requirements and guidelines (ISO 14044:2006); German and English versions EN ISO 14044:2006.

EN 15804

EN 15804:2012-04+A2 2013, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

EN 15804

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Bostik.

REACH Regulation

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The Building Information Foundation RTS

The Building Information Foundation RTS in Finlandis a private and non-profitmaking Foundation, whose task is to foster both good planning and building methods and good property management practices. Through 54 associations and organisations, the Foundation represents the entire building and construction industry.

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The decision is in line with the requirements laid down in the Classification of Indoor Climate 2018 and the Classification of Building Materials: General rules.

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