

Blowerproof Liquid Brush

HEVADEX Group

Calculation number: EPD-NIBE-20230206-34728
Generation on: 06-02-2023
Issue date: 06-02-2023
Valid until:
Status: in-progress



1 General information

1.1 PRODUCT

Blowerproof Liquid Brush

1.2 VALIDITY

Issue date

Valid until:

1.3 OWNER OF THE DECLARATION

[company has no logo]

Manufacturer: HEVADEX Group

Address: Spinnerslaan 6, 9160 Lokeren

E-mail: info@hevadex.be:

Website: <https://www.hevadex.com/en>

Production location: HEVADEX Group

Address production location: Spinnerslaan 6, 9160 Lokeren

1.4 VERIFICATION OF THE DECLARATION

CEN standard EN 15804 serves as the core PCR. In compliance with ISO 14040:2006 and 14044:2006.

Independent verification of the declaration according to EN ISO 14025:2011-10.

☐ Internal ☐ External

1.5 THIS DECLARATION IS BASED ON THE PRODUCT CATEGORY RULES

Core PCR: EN 15804:2012+A2:2019

PCR A: Kiwa-Ecobility Experts (Kiwa-EE) – General Product Category Rules, Version 2.1, 2022-02-04

PCR B: Requirements for Environmental Product Declarations for coatings, Edition 2022-03-07 (draft)

1.6 FUNCTIONAL / DECLARED UNIT

1 m2 coating

Declared unit: square meter (m2)

1 m2 coating

1.7 CONVERSION FACTORS

Description	Value	Unit
Declared unit	1	square meter
Weight per declared unit	0.700	kg
Conversion factor to 1 kg	1.428571	square meter

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to gate with options, modules C1-C4 and module D LCA. The life cycle stages included are as shown below:

(X = module included, ND = module not declared)

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	ND	ND	ND	ND	X	X	X	X	X

1.9 COMPARABILITY

In principle, a comparison or assessment of the environmental impacts of different products is only possible if they have been prepared in accordance with EN 15804. For the evaluation of the comparability, the following aspects have to be considered in particular: PCR used, functional or declared unit, geographical reference, the definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases, and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general program instructions of different EPDs programs may differ. Comparability needs

1 General information

to be evaluated. For further guidance, see EN 15804+A2 (5.3 Comparability of EPD for

construction products) and ISO 14025 (6.7.2 Requirements for comparability).

2 Product

2.1 PRODUCT DESCRIPTION

BLOWERPROOF® LIQUID BRUSH dries to form a flexible airtight membrane and intelligent vapour control with strong adhesion to the substrate. BLOWERPROOF® LIQUID BRUSH is brush applied.

Suitable substrates include concrete, masonry, bricks, blocks, plaster/render, engineered wooden boards, tapes, membranes, aluminium, steel and PVC. BLOWERPROOF® LIQUID BRUSH is a water-based dispersion without organic solvents. Dried material can be disposed of as non-hazardous waste.

BLOWERPROOF® LIQUID BRUSH is applied for the permanent airtightness in the following applications:

- Floor/wall, wall/wall and wall/ceiling connections or complete walls.
- walls and floors, curtain walls, Wall/roof connections (steel deck)
- Insulation materials such as Rockwool, PUR, PIR, EPS, ...

BLOWERPROOF® LIQUID BRUSH also functions as an intelligent vapour control, and is also suitable to be applied directly onto insulation materials. A detailed Sd and G value table is available for condensation risk analysis.

Product packaging: 10kg

Indicative consumption: 0.7 kg/m².

The product and the packaging do not contain biogenic carbon.

2.2 DESCRIPTION PRODUCTION PROCESS

Manufacturing process: dispersion mixing.

Green energy is used for production.

The waste during production is measured in the form of a mass balance by comparing added raw materials and total filled off volume. On a batch of 900 kg, this is about 4-5 kg, so the production waste is 0.5 %.

No emissions during production.

2.3 CONSTRUCTION DESCRIPTION

The application system is by paintbrush.

No energy consumption during application.

The construction waste is considered with a typical value for finishing materials of 15 %.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
AP	mol H+ eqv.	8.05E-3	5.23E-5	3.40E-4	5.43E-5	1.34E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.77E-5	2.07E-5	5.65E-5	-1.34E-4	9.84E-3
GWP-total	kg CO2 eqv.	2.31E+0	1.01E-2	8.00E-2	1.06E-2	5.04E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.96E-3	1.80E-1	7.47E-2	-1.11E-1	3.07E+0
GWP-b	kg CO2 eqv.	1.37E-2	5.41E-6	1.63E-3	7.78E-6	2.32E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.59E-6	9.42E-6	5.43E-5	-6.34E-4	1.70E-2
GWP-f	kg CO2 eqv.	2.30E+0	1.01E-2	7.82E-2	1.06E-2	5.01E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.95E-3	1.80E-1	7.47E-2	-1.11E-1	3.05E+0
GWP-luluc	kg CO2 eqv.	1.13E-3	3.54E-6	9.84E-5	3.13E-6	1.95E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.65E-6	1.38E-6	3.02E-6	-9.98E-5	1.34E-3
EP-m	kg N eqv.	1.34E-3	1.79E-5	6.05E-5	1.84E-5	2.35E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.03E-5	8.16E-6	1.91E-5	-3.52E-5	1.69E-3
EP-fw	kg P eqv.	3.59E-5	8.29E-8	4.02E-6	8.17E-8	6.37E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.00E-7	5.91E-8	1.14E-7	-9.71E-7	4.57E-5
EP-T	mol N eqv.	1.35E-2	1.98E-4	6.99E-4	2.03E-4	2.40E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.24E-4	9.05E-5	2.10E-4	-4.11E-4	1.71E-2
ODP	kg CFC 11 eqv.	6.47E-8	2.30E-9	8.68E-9	2.52E-9	1.54E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.20E-9	5.80E-10	2.05E-9	-1.86E-8	7.99E-8
POCP	kg NMVOC eqv.	6.18E-3	5.65E-5	2.12E-4	6.07E-5	1.04E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.40E-5	2.27E-5	7.66E-5	-1.19E-4	7.59E-3
ADP-f	MJ	4.40E+1	1.53E-1	1.47E+0	1.67E-1	6.99E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.50E-1	2.39E-2	1.56E-1	-2.78E+0	5.03E+1
ADP-mm	kg Sb- eqv.	3.91E-6	2.66E-7	7.35E-7	1.83E-7	9.48E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.52E-7	2.95E-8	7.07E-8	-9.94E-8	6.29E-6
WDP	m3 world eqv.	1.16E+0	4.49E-4	2.57E-2	5.42E-4	1.84E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.37E-4	1.28E-5	6.71E-3	-1.52E-2	1.36E+0

AP=Acidification (AP) | GWP-total=Global warming potential (GWP-total) | GWP-b=Global warming potential - Biogenic (GWP-b) | GWP-f=Global warming potential - Fossil (GWP-f) | GWP-luluc=Global warming potential - Land use and land use change (GWP-luluc) | EP-m=Eutrophication marine (EP-m) | EP-fw=Eutrophication, freshwater (EP-fw) | EP-T=Eutrophication, terrestrial (EP-T) | ODP=Ozone depletion (ODP) | POCP=Photochemical ozone formation - human health (POCP) | ADP-f=Resource use, fossils (ADP-f) | ADP-mm=Resource use, minerals and metals (ADP-mm) | WDP=Water use (WDP)

3 Results

ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS EN15084+A2

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ETP-fw	CTUe	2.40E+1	1.25E-1	1.09E+0	1.33E-1	5.16E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.34E-1	2.23E-1	1.30E-1	-5.51E-1	3.05E+1
PM	disease incidence	8.97E-8	7.68E-10	2.55E-9	9.89E-10	1.48E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.95E-10	1.62E-10	1.08E-9	-5.52E-10	1.10E-7
HTP-c	CTUh	9.74E-10	3.57E-12	4.31E-11	3.27E-12	2.08E-10	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.34E-12	2.15E-10	8.20E-12	-1.31E-11	1.45E-9
HTP-nc	CTUh	2.24E-8	1.36E-10	8.55E-10	1.51E-10	4.09E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.46E-10	7.04E-10	1.10E-10	-2.45E-10	2.84E-8
IR	kBq U235 eqv.	1.35E-2	6.65E-4	8.16E-3	7.28E-4	3.94E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.29E-4	7.14E-5	6.13E-4	-1.93E-2	8.97E-3
SQP	Pt	1.58E+0	1.14E-1	6.93E-1	1.91E-1	4.79E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.30E-1	8.80E-3	3.71E-1	-4.17E-1	3.15E+0

ETP-fw=Ecotoxicity, freshwater (ETP-fw) | PM=Particulate Matter (PM) | HTP-c=Human toxicity, cancer (HTP-c) | HTP-nc=Human toxicity, non-cancer (HTP-nc) | IR=Ionising radiation, human health (IR) | SQP=Land use (SQP)

CLASSIFICATION OF DISCLAIMERS TO THE DECLARATION OF CORE AND ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS

ILCD classification	Indicator	Disclaimer
ILCD type / level 1	Global warming potential (GWP)	None
	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
ILCD type / level 2	AAcidification potential, Accumulated Exceedance (AP)	None
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None
	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None
	Formation potential of tropospheric ozone (POCP)	None
	Potential Human exposure efficiency relative to U235 (IRP)	1
ILCD type / level 3	Abiotic depletion potential for non-fossil resources (ADP-minerals&metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2

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ILCD classification	Indicator	Disclaimer
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2
	Potential Soil quality index (SQP)	2

Disclaimer 1 – 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 nor due to 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 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

3.2 INDICATORS DESCRIBING RESOURCE USE AND ENVIRONMENTAL INFORMATION BASED ON LIFE CYCLE INVENTORY (LCI)

PARAMETERS DESCRIBING RESOURCE USE

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	4.48E-1	2.11E-3	2.19E-1	2.10E-3	1.10E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.88E-3	1.46E-3	2.70E-3	-1.46E-1	6.41E-1
PERM	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
PERT	MJ	4.48E-1	2.11E-3	2.19E-1	2.10E-3	1.10E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.88E-3	1.46E-3	2.70E-3	-1.46E-1	6.41E-1
PENRE	MJ	3.19E+1	1.63E-1	9.49E-2	1.77E-1	4.97E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.59E-1	2.58E-2	1.65E-1	-2.95E+0	3.47E+1
PENRM	MJ	1.56E+1	0.00E+0	1.47E+0	0.00E+0	2.56E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.96E+1
PENRT	MJ	4.75E+1	1.63E-1	1.56E+0	1.77E-1	7.53E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.59E-1	2.58E-2	1.65E-1	-2.95E+0	5.43E+1
SM	Kg	0.00E+0	0.00E+0	3.70E-2	0.00E+0	5.54E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.25E-2
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	2.74E-2	1.66E-5	1.00E-3	1.90E-5	4.45E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.83E-5	3.34E-5	1.63E-4	-4.82E-4	3.26E-2

PERE=renewable primary energy ex. raw materials | PERM=renewable primary energy used as raw materials | PERT=renewable primary energy total | PENRE=non-renewable primary energy ex. raw materials | PENRM=non-renewable primary energy used as raw materials | PENRT=non-renewable primary energy total | SM=use of secondary material | RSF=use of renewable secondary fuels | NRSF=use of non-renewable secondary fuels | FW=use of net fresh water

3 Results

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
HWD	Kg	8.66E-6	3.97E-7	2.41E-6	4.04E-7	2.04E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.80E-7	2.47E-7	2.39E-7	-2.02E-6	1.28E-5
NHWD	Kg	1.71E-1	8.05E-3	1.59E-2	1.45E-2	1.28E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.52E-3	2.98E-3	6.27E-1	-2.99E-3	9.74E-1
RWD	Kg	1.66E-5	1.04E-6	7.48E-6	1.14E-6	4.46E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.85E-7	7.43E-8	9.33E-7	-1.67E-5	1.60E-5

HWD=hazardous waste disposed | NHWD=non hazardous waste disposed | RWD=radioactive waste disposed

ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
CRU	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.25E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.25E-3
MER	Kg	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EET	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-1.00E+0	-1.00E+0
EEE	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-5.83E-1	-5.83E-1

CRU=Components for re-use | MFR=Materials for recycling | MER=Materials for energy recovery | EET=Exported Energy Thermic | EEE=Exported Energy Electric

3 Results

3.3 INFORMATION ON BIOGENIC CARBON CONTENT PER SQUARE METER

BIOGENIC CARBON CONTENT

The following Information describes the biogenic carbon content in (the main parts of) the product at the factory gate per square meter:

Biogenic carbon content	Amount	Unit
Biogenic carbon content in the product	0	kg C
Biogenic carbon content in accompanying packaging	0	kg C

4 Contact information

Owner of declaration

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E-mail:
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Website:
<https://www.hevadex.com/en>

