Environmental Product Declaration
according to ISO 14025 and EN 15804

MRPI
milieu relevante product informatie

This declaration is for:
Universal Pro Therm SA green

Provided by:
BMI Flachdachsysteme GmbH

BMI icopal

program operator
Stichting MRPI®
publisher
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www.mrpi.nl

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1.1.00300.2022
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ECO PLATFORM
EPD VERIFIED

ECO PLATFORM EPD VERIFIED

MRPI milieu relevante product informatie

COMPANY INFORMATION

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MRPI® REGISTRATION
1.1.00300.2022

DATE OF ISSUE
21-12-2022

EXPIRY DATE
21-12-2027

SCOPE OF DECLARATION
This MRPI®-EPD certificate is verified by **Kamiel Jansen, Aveco de Bondt.**
The LCA study has been done by **Wouter Jan van den Berg, BMI Group.**
The certificate is based on an LCA-dossier according to ISO14025 and EN15804+A2/Bepalingsmethode. It is verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'. EPDs of construction products may not be comparable if they do not comply with EN15804+A2/Bepalingsmethode. Declaration of SVHC that are listed on the 'Candidate List of Substances of Very High Concern for authorisation' when content exceeds the limits for registration with ECHA.

PROGRAM OPERATOR
Stichting MRPI®
Kingsfordweg 151
1043GR
Amsterdam

ir. J-P den Hollander, Managing director MRPI®

PRODUCT
Universal Pro Therm SA green

DECLARED UNIT/FUNCTIONAL UNIT
1 m2 waterproof roofing incl. fastening materials for non-sloping substrates and roof pitches up to 20Â°. Representative for roof areas > 50 m2. Excl. insulation material and the roof construction.

DESCRIPTION OF PRODUCT
Universal cold self-adhesive waterproofing membrane, suitable for extensive and intensive green roofs.

VISUAL PRODUCT

MORE INFORMATION
https://www.bmigroup.com/de/p/universal-pro-therm-sa-green-2057695955/

DEMONSTRATION OF VERIFICATION		
CEN standard EN15804 serves as the core PCR[a]		
Independent verification of the declaration and data, according to EN ISO 14025:2010:		
internal:	external: X	
Third party verifier:		
Kamiel Jansen, Aveco de Bondt		
[a] PCR = Product Category Rules		

DETAILED PRODUCT DESCRIPTION

Universal Pro Therm SA green is a cold-adhesive waterproofing membrane Polyolefin copolymer bitumen (POCB), with integrated root protection, glass Polyester composite carrier insert, self-adhesive Power Therm strip, blue syntan coating, double safety seam and T-cut. Universally applicable Sealing membrane for the highest demands for sealing of:

- Used and unused roof areas
- Balconies, loggias and arcades
- under extensive green roofs and intensive green roofs for areas from 0° to 20° inclination.
- Suitable for laying on unlaminated EPS insulation and on mineral fleece and aluminum laminated PU/ PIR insulation.

The reference service life (RSL) is 35 years.

| COMPONENT > 1% of total mass	[%]
polypropylene	confidential
bitumen	confidential
reinforcement (consisting of polyester and glass fiber)	confidential
adhesive materials (bitumen stripes and syntan coating)	confidential

SCOPE AND TYPE

Universal Pro Therm SA Green is produced in Werne (Germany) and sold in the EU. The background database is Ecoinvent 3.6. This MRPI EPD is specific to Universal Pro Therm SA Green.

PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport gate to 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	x	x	x	x	x	x	x	ND	ND	ND	ND	x	x	x	x	x

X = Modules Assessed

ND = Not Declared

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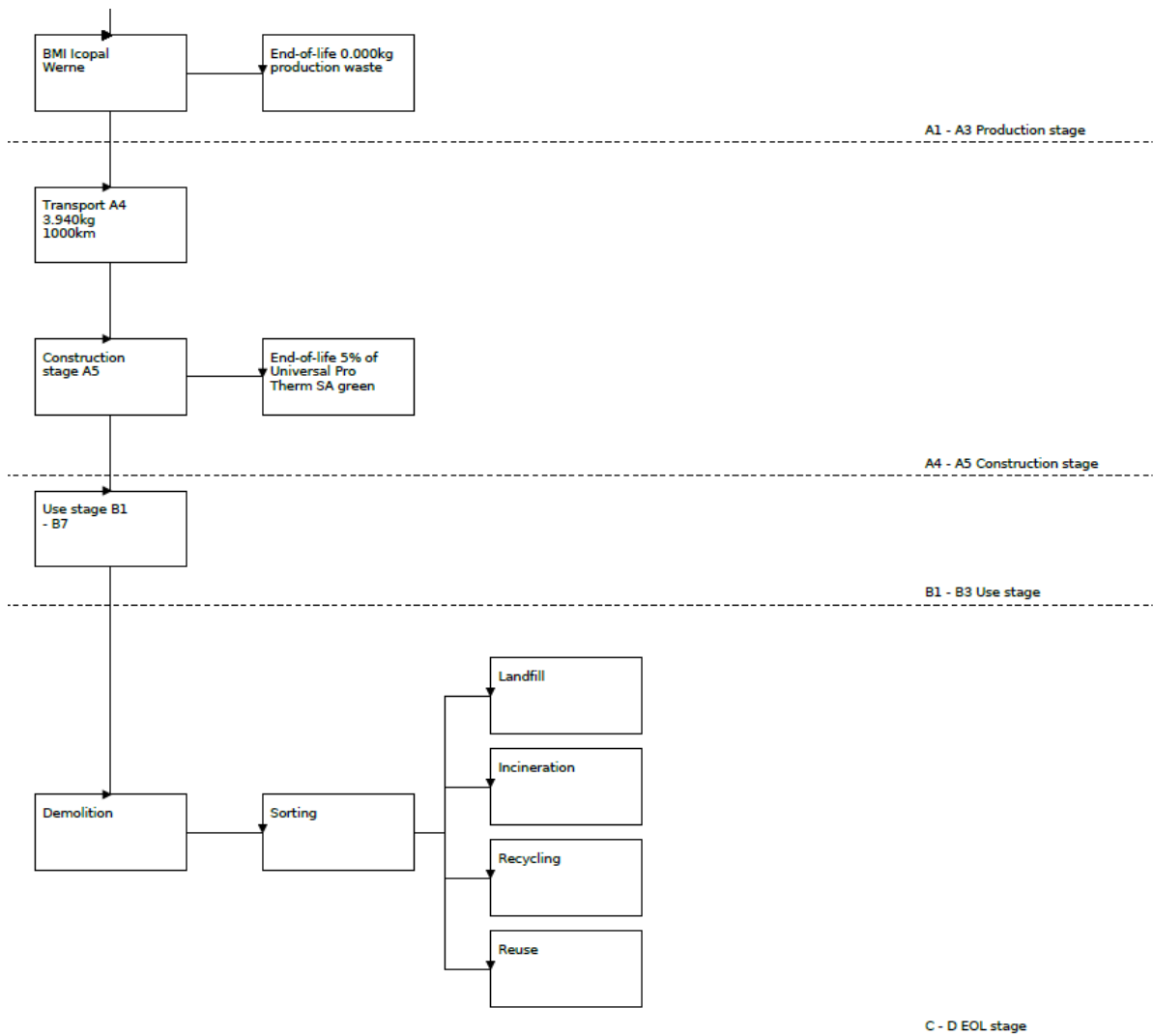
LCA process diagram according to EN 15804 (7.2.1)

REPRESENTATIVENESS

The input data is representative of Universal Pro Therm SA Green, a product of BMI Icopal Werne. The data is representative for the production in Werne, Germany and application in the EU.

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BMI icopal

ENVIRONMENTAL IMPACT per functional unit or declared unit (indicators A1)

	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D
ADPE	kg Sb eq.	1.37 E-4	4.53 E-6	8.85 E-6	1.50 E-4	1.78 E-5	8.98 E-6	0.00	0.00	0.00	0.00	2.84 E-6	2.88 E-6	1.43 E-7	4.70 E-6
ADPF	MJ	1.46 E+2	3.16 E+0	1.80 E+2	3.30 E+2	9.76 E+0	1.74 E+1	0.00	0.00	0.00	0.00	1.21 E+0	2.46 E+0	3.16 E-1	-3.73 E+1
GWP	kg CO2 eq.	3.10 E+0	2.18 E-1	2.20 E+0	5.52 E+0	6.51 E-1	6.12 E-1	0.00	0.00	0.00	0.00	8.17 E-2	4.60 E+0	1.59 E-1	-2.08 E+0
ODP	kg CFC11 eq.	1.29 E-6	3.80 E-8	1.22 E-6	2.54 E-6	1.19 E-7	1.39 E-7	0.00	0.00	0.00	0.00	1.45 E-8	2.77 E-8	3.29 E-9	-2.99 E-7
POCP	kg ethene eq.	1.23 E-2	1.73 E-4	1.79 E-3	1.43 E-2	3.30 E-4	7.61 E-4	0.00	0.00	0.00	0.00	4.15 E-5	1.73 E-4	3.89 E-5	-1.48 E-4
AP	kg SO2 eq.	1.76 E-2	2.32 E-3	6.90 E-3	2.68 E-2	2.08 E-3	1.64 E-3	0.00	0.00	0.00	0.00	2.71 E-4	1.25 E-3	1.65 E-4	-7.24 E-4
EP	kg (PO4)3- eq.	3.63 E-3	3.11 E-4	1.08 E-3	5.02 E-3	3.81 E-4	3.17 E-4	0.00	0.00	0.00	0.00	4.93 E-5	2.24 E-4	7.39 E-5	-2.21 E-4

Toxicity indicators for Dutch market

	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D
HTP	kg DCB eq.	2.05 E+0	1.00 E-1	3.56 E-1	2.51 E+0	2.59 E-1	1.70 E-1	0.00	0.00	0.00	0.00	3.08 E-2	2.46 E-1	7.81 E-3	-5.45 E-2
FAETP	kg DCB eq.	8.29 E-2	2.42 E-3	1.91 E-2	1.04 E-1	7.16 E-3	6.68 E-3	0.00	0.00	0.00	0.00	8.54 E-4	6.88 E-3	1.86 E-3	6.68 E-5
MAETP	kg DCB eq.	1.54 E+2	9.49 E+0	4.51 E+1	2.08 E+2	2.73 E+1	1.62 E+1	0.00	0.00	0.00	0.00	3.18 E+0	1.59 E+1	2.08 E+0	3.57 E-1
TETP	kg DCB eq.	1.20 E-2	3.31 E-4	5.60 E-3	1.80 E-2	9.17 E-4	1.03 E-3	0.00	0.00	0.00	0.00	1.18 E-4	6.71 E-4	2.30 E-5	-1.85 E-4
ECI	Euro	4.98 E-1	3.36 E-2	2.02 E-1	7.33 E-1	7.20 E-2	6.01 E-2	0.00	0.00	0.00	0.00	8.91 E-3	2.61 E-1	1.03 E-2	-1.17 E-1
ADPF	kg Sb. eq.	7.03 E-2	1.52 E-3	8.67 E-2	1.59 E-1	4.69 E-3	8.37 E-3	0.00	0.00	0.00	0.00	5.84 E-4	1.18 E-3	1.52 E-4	-1.80 E-2

ADPE = Abiotic Depletion Potential for non-fossil resources

ADPF = Abiotic Depletion Potential for fossil resources

GWP = Global Warming Potential

ODP = Depletion potential of the stratospheric ozone layer

POCP = Formation potential of tropospheric ozone photochemical oxidants

AP = Acidification Potential of land and water

EP = Eutrophication Potential

HTP = Human Toxicity Potential

FAETP = Fresh water aquatic ecotoxicity potential

MAETP = Marine aquatic ecotoxicity potential

TETP = Terrestrial ecotoxicity potential

ECI = Environmental Cost Indicator

ADPF = Abiotic Depletion Potential for fossil resources expressed in [kg Sb-eq.]

ENVIRONMENTAL IMPACT per functional unit or declared unit (core indicators A2)

	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D
GWP-total	kg CO2 eq.	3.19 E+0	2.20 E-1	2.10 E+0	5.51 E+0	6.57 E-1	1.08 E+0	0.00	0.00	0.00	0.00	8.25 E-2	4.60 E+0	1.86 E-1	-2.08 E+0
GWP-fossil	kg CO2 eq.	3.21 E+0	2.20 E-1	2.32 E+0	5.75 E+0	6.57 E-1	6.16 E-1	0.00	0.00	0.00	0.00	8.24 E-2	4.60 E+0	1.86 E-1	-2.09 E+0
GWP-biogenic	kg CO2 eq.	-2.15 E-2	5.65 E-5	-2.25 E-1	-2.47 E-1	3.50 E-4	4.65 E-1	0.00	0.00	0.00	0.00	4.04 E-5	7.23 E-5	1.18 E-4	7.46 E-3
GWP-luluc	kg CO2 eq.	4.02 E-3	1.01 E-4	3.91 E-3	8.04 E-3	2.30 E-4	4.30 E-4	0.00	0.00	0.00	0.00	3.48 E-5	1.42 E-4	6.77 E-6	-7.53 E-5
ODP	kg CFC11 eq.	1.59 E-6	4.77 E-8	1.39 E-6	3.02 E-6	1.49 E-7	1.65 E-7	0.00	0.00	0.00	0.00	1.82 E-8	3.02 E-8	4.09 E-9	-3.43 E-7
AP	mol H+ eq.	2.09 E-2	2.95 E-3	8.62 E-3	3.24 E-2	2.68 E-3	2.02 E-3		0.00	0.00	0.00	3.50 E-4	1.65 E-3	2.00 E-4	-1.10 E-3
EP-freshwater	kg PO4 eq.	4.33 E-4	1.72 E-6	7.55 E-5	5.10 E-4	5.16 E-6	2.63 E-5	0.00	0.00	0.00	0.00	7.62 E-7	4.71 E-6	2.63 E-7	4.17 E-6
EP-marine	kg N eq.	3.02 E-3	8.14 E-4	1.93 E-3	5.76 E-3	7.96 E-4	4.33 E-4	0.00	0.00	0.00	0.00	1.04 E-4	5.19 E-4	1.58 E-4	-4.95 E-4
EP-terrestrial	mol N eq.	3.42 E-2	9.03 E-3	2.04 E-2	6.37 E-2	8.80 E-3	4.70 E-3	0.00	0.00	0.00	0.00	1.15 E-3	5.74 E-3	4.28 E-4	-6.13 E-3
POCP	kg NMVOC eq.	3.32 E-2	2.43 E-3	7.76 E-3	4.34 E-2	2.70 E-3	2.60 E-3	0.00	0.00	0.00	0.00	3.49 E-4	1.60 E-3	1.68 E-4	-1.51 E-3
ADP-minerals & metals	kg Sb eq.	1.37 E-4	4.53 E-6	8.84 E-6	1.50 E-4	1.78 E-5	8.98 E-6	0.00	0.00	0.00	0.00	2.84 E-6	2.88 E-6	1.43 E-7	4.70 E-6
ADP-fossil	MJ, net calorific value	1.48 E+2	3.18 E+0	1.61 E+2	3.12 E+2	9.90 E+0	1.65 E+1	0.00	0.00	0.00	0.00	1.23 E+0	2.38 E+0	3.16 E-1	-3.24 E+1
WDP	m3 world eq. deprived	1.54 E+0	9.01 E-3	2.16 E-1	1.77 E+0	2.76 E-2	1.00 E-1	0.00	0.00	0.00	0.00	3.85 E-3	6.56 E-2	1.34 E-2	3.60 E-2

GWP-total = Global Warming Potential total

GWP-fossil = Global Warming Potential fossil fuels

GWP-biogenic = Global Warming Potential biogenic

GWP-luluc = Global Warming Potential land use and land use change

ODP = Depletion potential of the stratospheric ozone layer

AP = Acidification Potential, Accumulated Exceedence

EP-freshwater = Eutrophication Potential, fraction of nutrients reaching freshwater end compartment

EP-marine = Eutrophication Potential, fraction of nutrients reaching marine end compartment

EP-terrestrial = Eutrophication Potential, Accumulated Exceedence

POCP = Formation potential of tropospheric ozone photochemical oxidants

ADP-minerals&metals = Abiotic Depletion Potential for non fossil resources [2]

ADP-fossil = Abiotic Depletion for fossil resources potential [2]

WDP = Water (user) deprivation potential, deprivation-weighted water consumption [2]

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 experience with the indicator.

ENVIRONMENTAL IMPACT per functional unit or declared unit (additional indicators A2)

	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D
PM	Disease incidence	1.57 E-7	1.51 E-8	4.40 E-8	2.16 E-7	4.58 E-8	1.59 E-8	0.00	0.00	0.00	0.00	5.33 E-9	1.70 E-8	2.22 E-9	5.26 E-10
IRP	kBq U235 eq.	4.67 E-1	1.35 E-2	8.96 E-2	5.70 E-1	4.33 E-2	3.21 E-2	0.00	0.00	0.00	0.00	5.34 E-3	7.64 E-3	1.28 E-3	-1.50 E-2
ETP-fw	CTUe	8.45 E+1	2.56 E+0	3.22 E+1	1.19 E+2	7.93 E+0	7.43 E+0	0.00	0.00	0.00	0.00	1.04 E+0	3.77 E+0	4.22 E-1	-3.71 E+0
HTP-c	CTUh	1.87 E-9	9.95 E-11	7.36 E-10	2.71 E-9	2.23 E-10	2.72 E-10	0.00	0.00	0.00	0.00	3.27 E-11	7.67 E-10	8.85 E-12	-6.34 E-11
HTP-nc	CTUh	4.85 E-8	2.64 E-9	1.49 E-8	6.60 E-8	8.65 E-9	4.91 E-9	0.00	0.00	0.00	0.00	1.11 E-9	5.98 E-9	1.81 E-10	-8.48 E-10
SQP	---	1.81 E+1	2.02 E+0	3.70 E+1	5.71 E+1	6.83 E+0	3.50 E+0	0.00	0.00	0.00	0.00	7.75 E-1	1.81 E+0	7.38 E-1	-1.72 E+1

PM = Potential incidence of disease due to PM emissions
IRP = Potential Human exposure efficiency relative to U235 [1]
ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]
HTP-c = Potential Comparative Toxic Unit for humans [2]
HTP-nc = Potential Comparative Toxic Unit for humans, non-cancer [2]
SQP = Potential soil quality index [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 experience with the indicator.

RESOURCE USE per functional unit or declared unit (A1 / A2)

	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D
PERE	MJ	2.56 E+0	3.63 E-2	7.07 E+0	9.67 E+0	1.40 E-1	5.05 E-1	0.00	0.00	0.00	0.00	2.01 E-2	1.34 E-1	6.65 E-3	-3.20 E+0
PERM	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.85 E-1
PERT	MJ	2.56 E+0	3.63 E-2	7.07 E+0	9.67 E+0	1.40 E-1	5.05 E-1	0.00	0.00	0.00	0.00	2.01 E-2	1.34 E-1	6.65 E-3	-3.39 E+0
PENRE	MJ	6.60 E+1	3.37 E+0	1.72 E+2	2.42 E+2	1.05 E+1	1.31 E+1	0.00	0.00	0.00	0.00	1.30 E+0	2.54 E+0	3.36 E-1	-3.99 E+1
PENRM	MJ	1.06 E+2	0.00	5.82 E+0	1.12 E+2	0.00	5.61 E+0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.69 E+0
PENRT	MJ	1.72 E+2	3.37 E+0	1.78 E+2	3.54 E+2	1.05 E+1	1.87 E+1	0.00	0.00	0.00	0.00	1.30 E+0	2.54 E+0	3.36 E-1	-3.62 E+1
SM	kg	5.80 E-1	0.00	1.21 E-2	5.92 E-1	0.00	2.96 E-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NRSF	MJ	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FW	m3	3.75 E-2	3.17 E-4	8.58 E-3	4.64 E-2	1.04 E-3	2.83 E-3	0.00	0.00	0.00	0.00	1.47 E-4	2.90 E-3	3.30 E-4	1.81 E-3

PERE = Use of renewable energy excluding renewable primary energy resources
PERM = Use of renewable energy resources used as raw materials
PERT = Total use of renewable primary energy resources
PENRE = Use of non-renewable primary energy resources excluding non-renewable energy resources used as raw materials
PENRM = Use of non-renewable primary energy resources used as raw materials
PENRT = 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
FW = Use of net fresh water

OUTPUT FLOWS AND WASTE CATEGORIES per functional unit or declared unit (A1 / A2)

	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D
HWD	kg	4.96 E-5	6.79 E-6	2.01 E-4	2.57 E-4	2.60 E-5	1.50 E-5	0.00	0.00	0.00	0.00	3.27 E-6	4.19 E-6	4.77 E-7	-4.31 E-5
NHWD	kg	1.61 E-1	1.39 E-1	1.72 E-1	4.72 E-1	4.73 E-1	1.61 E-1	0.00	0.00	0.00	0.00	5.23 E-2	1.94 E-1	1.24 E+0	-4.43 E-4
RWD	kg	7.05 E-4	2.14 E-5	1.29 E-4	8.55 E-4	6.75 E-5	4.81 E-5	0.00	0.00	0.00	0.00	8.25 E-6	9.10 E-6	1.90 E-6	-2.84 E-5
CRU	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MFR	kg	0.00	0.00	9.84 E-3	9.84 E-3	0.00	3.86 E-2	0.00	0.00	0.00	0.00	0.00	4.81 E-1	0.00	0.00
MER	kg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EEE	MJ	0.00	0.00	2.02 E-1	2.02 E-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11 E+1
ETE	MJ	0.00	0.00	3.49 E-1	3.49 E-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92 E+1

HWD = Hazardous Waste Disposed
RWD = Radioactive Waste Disposed
MFR = Materials for recycling
EEE = Exported Electrical Energy

NHWD = Non Hazardous Waste Disposed
CRU = Components for reuse
MER = Materials for energy recovery
ETE = Exported Thermal Energy

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BIOGENIC CARBON CONTENT per functional unit or declared unit (A1 / A2)

	UNIT	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D
BCCpr	kg C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BCCpa	kg C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BCCpr = Biogenic carbon content in product
BCCpa = Biogenic carbon content in packaging

CALCULATION RULES

Production phase (A1-A3)
The production phase includes mining of raw materials, transportation of raw materials and processing of the raw materials into materials and production of the final product. Furthermore, the energy needs of production, external treatments, ancillary materials, packaging and production emissions are included.

Construction phase (A4-A5)
This phase involves the transport from the factory to the construction site and includes the losses at the construction site. The extra production, transport and end-of-life of material losses during the construction phase are included. The end of life of the packaging material up to the end of waste status or landfill is included. The installation of the product includes production, transportation and end-of-life of auxiliary materials and any energy or water used for the construction or management of the construction site.

Use phase (B)
This phase includes the environmental impact of building components or structures during use, including the planned maintenance that is necessary for the product to meet its functional and technical performance and to meet the aesthetic requirements. For this product there is no maintenance during the reference service life. Energy consumption during use or water use is not included.

End of life (C) and environmental benefits and costs beyond system boundaries (D)
At the end of its life, Universal Pro Therm SA Green is recyclable. Due to the absence of a recycling facility in the UK we assumed that the roofing membrane is dealt with according to the average EWA end of life scenario:
• Incineration with energy recovery (45% of the product) and recycling (15% of the product – only sorting process considered)
• Sanitary landfilling operations (40% of the product)

SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

The manufacturing takes place at BMI Icopal Germany production site in Werne, Germany.

Bitumen blends production

Bitumen blends are prepared and stored in big holding tanks at +/- 190°C, before being pumped to the production line. POCB blends consist of bitumen, polypropylene, limestone, and other additives (for instance anti-root additives). SBS bitumen blends consist of bitumen, SBS, limestone and other additives (for instance anti-root additives).

Waterproofing production

The reinforcement is unrolled and runs through the production line : first an impregnation step, then the coating step where the bitumen blends are applied on each side. The reinforcement passes between two rollers that achieve the desired thickness.

A polypropylene fleece is applied on the topside of the product, a syntan coating and bituminous adhesive stripes are applied on the backside of the product ; a removable PE foil is then applied on the adhesive stripes. For both heating and cooling needed during production, coolants and hot oil are used in closed systems and is thus not consumed during the manufacturing process.

DECLARATION OF SVHC

No substances that are listed in the latest Candidate List of substances of Very High Concern for authorisation" are included in the product the exceeds the limit for registration.

REFERENCES

ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework; EN ISO 14040:2006

ISO 14044:2006-10, Environmental management - Life cycle assessment - Requirements and guidelines; EN ISO 14040:2006

ISO 14025:2011-10: Environmental labels and declarations – Type III environmental declarations – Principles and procedures

EN 15804+A1: 2013: Sustainability of construction works – Environmental Product Declarations – Core rules for the product category of construction products

EN 15804+A2: 2019: Sustainability of construction works – Environmental Product Declarations – Core rules for the product category of construction products

REMARKS

None