Statement of Verification

BREG EN EPD No: 000831 Issue: 01

This is to verify that the Environmental Product Declaration provided by:

Radmat Building Products

are in accordance with the requirements of:

EN 15804:2012+A2:2019

and

BRE Global Scheme Document SD207

This declaration is for:
1 kg of ReadySeal

Company Address

Radmat Building Products
Holland House,
Valley Way,
Rockingham Road,
Market Harborough,
Leicestershire,
LE16 7PS



Signed for BRE Global Limited — Hayley Thomson, Operator

29 September 2026	29 September 2026	28 September 2031
Date of this Issue	Date of First Issue	Expiry Date

This Statement of Verification is issued subject to terms and conditions (for details visit www.greenbooklive.com/terms.

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Environmental Product Declaration

EPD Number: 000831

General Information

EPD Programme Operator	Applicable Product Category Rules
BRE Global Watford, Herts WD25 9XX United Kingdom	BRE 2025 Product Category Rules (PN 514 Rev 3.2) for Type III environmental product declaration of construction products to EN 15804:2012+A2:2019
Commissioner of LCA study	**LCA consultant/Tool**
Radmat Building Products Holland House, Valley Way, Rockingham Road, Market Harborough, Leicestershire, LE16 7PS	BRE LINA A2 Radmat Building Products
Declared/Functional Unit	**Applicability/Coverage**
1kg of ReadySeal	Product Specific.
EPD Type	**Background database**
Cradle to Gate with options	Ecoinvent 3.8

Demonstration of Verification
CEN standard EN 15804 serves as the core PCR [a]
Independent verification of the declaration and data according to EN ISO 14025:2010 ☒Internal ☐ External
(Where appropriate [b])Third party verifier: Jiacheng (Francis) Yu
a: Product category rules b: Optional for business-to-business communication; mandatory for business-to-consumer communication (see EN ISO 14025:2010, 9.4)

Comparability
Environmental product declarations from different programmes may not be comparable if not compliant with EN 15804:2012+A2:2019. Comparability is further dependent on the specific product category rules, system boundaries and allocations, and background data sources. See Clause 5.3 of EN 15804:2012+A2:2019 for further guidance

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Information modules covered

Product			Construction		Use stage							End-of-life					Benefits and loads beyond the system boundary
					Related to the building fabric					Related to the building							
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4		D
Raw materials supply	Transport	Manufacturing	Transport to site	Construction – Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal		Reuse, Recovery and/or Recycling potential
☑	☑	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐	☑	☑	☑	☑		☑

Note: Ticks indicate the Information Modules declared.

Manufacturing site(s)

Radmat Building Products

Holland House
Valley Way
Rockingham Road
Market Harborough
Leicestershire
LE16 7PS

Construction Product:

Product Description

ReadySeal is a BBA Certified one component silane-terminated polyether Liquid Applied Waterproofing Membrane. Suitable for use as a roof waterproofing membrane on warm, cold, inverted and green roofs in flat roof, pitched roof, roof terrace, podium deck, balcony and walkway applications including protected zero fall specifications.

When used as part of a roof system classified under BS EN 13501-5 ReadySeal achieves Broof(t4). Contact Radmat Building Products for certification information and build-ups. Plasticiser, cyanate, and solvent free, ReadySeal has a BBA assessed service life of in excess of 30 years. Once the service life of the product has ended, the system may be primed and re-treated, extending its use for an additional 30+ years.

The following LCA has been performed to analyse the Environmental Impacts of 1kg of ReadySeal, and it is specific for ReadySeal Liquid Applied Waterproofing Membrane.

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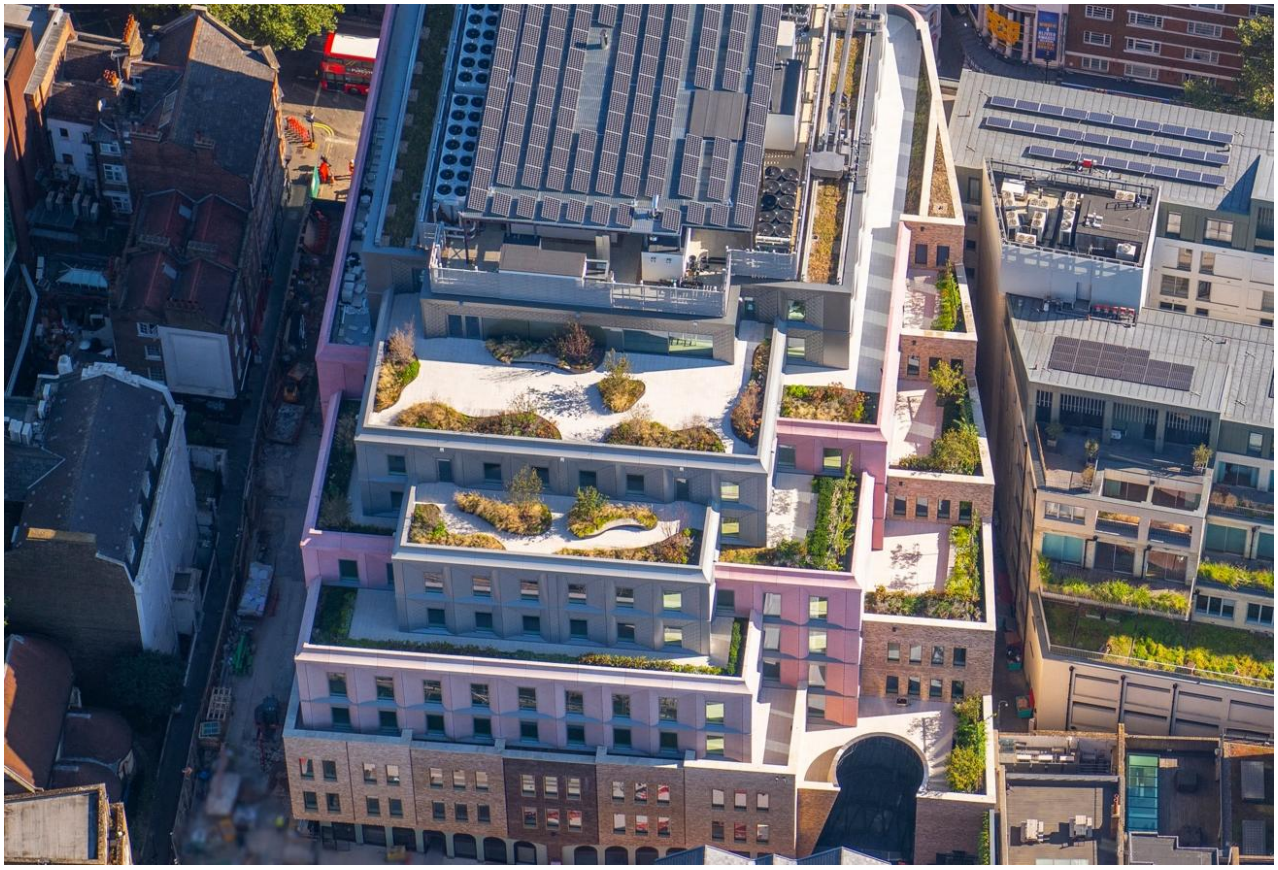
Technical Information

Property	Value, Unit
Appearance	Grey RAL 7046
Tin Contents	14.25 L
Weight	20 KG
Thickness of finished system	2.3 mm
Viscosity (25℃)	85.00 - 95.00
Elasticity (BS2782 Part 3)	300%
Hardness (ShoreA) (DIN 53505-A-87)	300%
Heat exchange flexibility	-40 – +80 ºC
Water vapour permeability (for 1.5mm thickness) Sd:	1 m
Maximum service temperature	90 ºC
Crack bridging	2 mm
Film forming time (25ºC, 50% R.H.)	30 mins
Cure (25ºC, 50%R.H.)	5 hours
Completion of Cure (25 ºC, 50% R.H.)	7 days
Water absorption (cured material (28 days) under water)	< 2 %

Note: Technical properties of ReadySeal can be found in the ReadySeal Product Data Sheet, all information including the Product Data Sheet, BBA Certificate and Safety Data Sheet can be found on https://radmat.com (Cert 20/5797).



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Main Product Contents

Material composition of all products assessed within this EPD

Material/Chemical Input	%
Polymer	25 -55%
Filler	30 – 45%
Additives	0 – 5%

Manufacturing Process

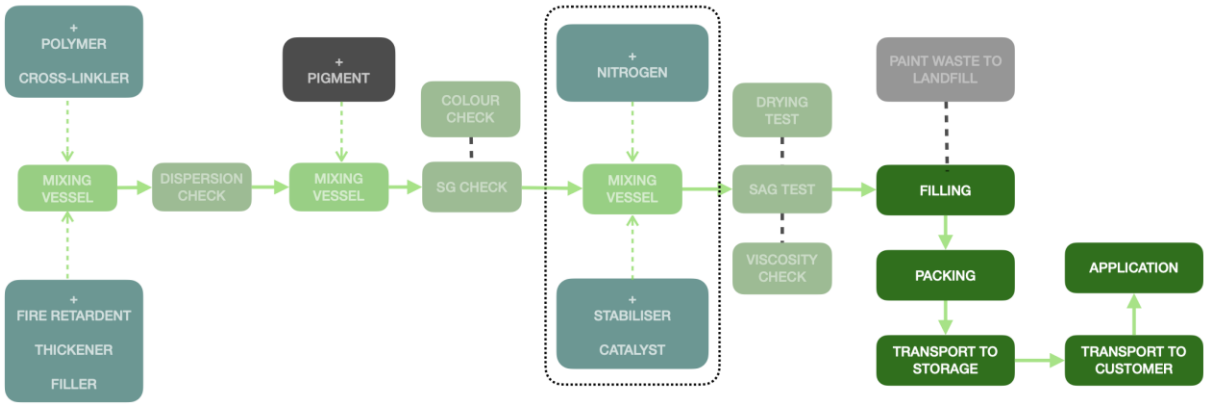
The system is manufactured using a batch blending process. A batch card is raised for every batch with a product code and a batch number. The batch numbers are sequential and are allocated by a computerised batch book.

The product components are pre-weighed and then blended in mixer. The mixing vessel is then sealed and stirring continued under a vacuum. The product is then decanted into pails and placed under nitrogen prior to packaging on pallets as per the manufacturing process diagram. Waste is generated from the cleaning down of equipment after a batch has been manufactured.

The packaged pallets are then transported by road to Radmat Distribution Centre before being despatched to construction site.

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Process flow diagram



Construction Installation

A transport distance of 100km has been assumed for this LCA study, it is assumed that the mode of transport used will be a 16-32 metric tonne lorry.

Installation must be carried out in accordance with the relevant clauses of BS 8000-0: 2014, BS 8000-4: 1989, this Certificate and the Certificate holder's instructions.

ReadySeal is a single pack, cold applied, liquid roofing membrane. Surface preparation should be carried out where necessary as set out in the application guidelines. The product should be applied by a Radmat approved trained contractor. An initial coat of ReadySeal is applied at a coverage rate of 1.4kg per m², it can be applied by brush, roller or airless spray. A reinforcement fleece is then embedded into the first coat using a soft brush, and a further coat of ReadySeal is applied at 1.26 kg per m². The total system thickness when complete will be approx. 2.3mm. Full curing of the product will take 7 days, yielding a service life in excess of 30 years according to ReadySeal BBA Agrément Certificate 20/5797.

An installation wastage rate of 2% has been allowed for this LCA.

Use Information

Once applied, the system will not need repair unless unpredicted mechanical damage occurs, or the system is not maintained properly in accordance with Radmat guidelines and those set out by the BBA. The system must be subject to 6 monthly inspections and maintenance by a competent individual, to ensure continued satisfactory performance. If minor damage does occur the system should be cleaned back to the un weathered material, primed and re-coated as per the guidelines set out by Radmat.

It is assumed that after 30 years of service life, the system may be cleaned, primed and the system may be reapplied at the specified coverage rates. This stage is not measured in this LCA analysis.

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End of Life

The demolition approach will vary depending on factors such as construction methodology, local geography, and the roofing substrate. For this LCA analysis, it is assumed that once the building is demolished, ReadySeal will be removed from the deconstruction site and sent to landfill.

This end-of-life scenario is based on the industrial average for Paint (solvent-based) according to Appendix D of the BRE PCR PN 514 Rev 3.2, i.e, 100% landfill disposal. Therefore, no pre-processing activities are in place based on this End of Life scenario.

It is considered that for a declared unit of 1 kg, the total mass sent to landfill is 1 kg (1 kg × 100%).

An average of 100km by road has been modelled for module C2 as a typical distance from the demolition site to the waste processing facility. However, end-users of the EPD can use this information to calculate the impacts of a bespoke transport distance for module C2 if required.

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Life Cycle Assessment Calculation Rules

Declared / Functional unit description

1kg of ReadySeal

System boundary

The System Boundary of the LCA is defined using the modular approach set out in EN15804:2012+A2:2019 and BRE 2025, Product Category Rules (PN 514 Rev3.2). This Cradle to Gate with options including Product Stage (A1 - A3), Construction (A4-A5), End of Life (C1 - C4) and Benefits and Loads beyond the System Boundary D.

Data sources, quality and allocation

Specific primary data derived from the ReadySeal production process in the Radmat manufacturing facility, Radmat Building Products Ltd, Holland House, Valley Way, Rockingham Road Market Harborough, Leicestershire LE16 7PS, have been modelled using BRE LINA A2 and the ecoinvent 3.8 database. In accordance with the requirements of EN 15804:2012+A2:2019, the most current available data has been used.

The manufacturer-specific data from Radmat Building Products Ltd covers a period of one year from April 2023 to April 2024. The LCA study includes ReadySeal, which accounts for 12% of the site's total production. The original data collection form has been used while doing the LCA analysis. All raw material, ancillary materials, packaging and production waste have been taken from actual usages of site production provided by Radmat Building Products.

Energy and fuels consumption within the Production Site have been allocated by mass with 12% being attributed to ReadySeal production. This allocation has been done according to the provisions of BRE PCR PN514 and EN 15804 . There is no uplift of the inputs as it is within tolerance.

As there is no water used within the product, the calculation is based on 95% of the total site quantity with ReadySeal being allocated 12% of total usage.

In respect of the Distribution Centre the pallets used for ReadySeal product make up 1.11% of the total pallets stored, so electricity, water usage and wastewater of the distribution centre have been allocated on 1.11% sales basis.

Secondary data has been obtained for all other upstream and downstream processes that are beyond the control of the manufacturer (i.e. raw material production) from the ecoinvent 3.8 database. All ecoinvent datasets are complete within the context used and conform to the system boundary and the criteria for the exclusion of inputs and outputs, according to the requirements specified in EN 15804:2012+A2:2019.

Where specific datasets were unavailable within the database, appropriate proxy datasets were selected based on the material's chemical composition, functionality, and intended application. For example, unspecified organic chemical datasets or similar chemical datasets have been used as proxies for some additives, stabilisers, and cross link agent that best represent their function and composition within the product system. These proxy datasets were considered to provide the most representative approximation available for the purposes of the assessment.

Data quality has been assessed in accordance with Table E.1 of EN 15804+A2, Annex E. The Life Cycle Assessment (LCA) has been carried out in accordance with EN 15804+A2, applying the cut-off approach as defined within the standard. Characterisation factors have been applied in line with Annex C (Table C.1) of EN 15804+A2.

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ISO14044 guidance. Quality Level	Geographical representativeness	Technical representativeness	Time representativeness
Very Good	Data from area under study.	Data from processes and products under study. Same state of technology applied as defined in goal and scope (i.e., identical technology).	Less than 3 years difference between the reference year according to the documentation, and the time period for which data are representative.

Specific UK datasets have been selected from the ecoinvent LCI for this LCA. The quality level of geographical and technical representativeness is therefore very good. The quality level of time representativeness is very good as the background LCI datasets are based on ecoinvent v3.8. The quality level of time representativeness is also Very Good, as the background LCI datasets are based on ecoinvent v3.8 compiled in 2021. Therefore, there is less than 5 years between the ecoinvent LCI reference year and the time period for which the LCA was undertaken.
The power mix is location-based, and it uses UK electricity 2022. 1 kWh UK electricity = 0.239 kgCO2eq/kWh (Electricity GB kWh market for electricity medium voltage).

Cut-off criteria

All processes associated with the manufacturing process have been included. All inputs or outputs have been included and all raw materials, ancillary, packaging, energy and fuels, water consumption, wastes, other non-production wastes and wastewater leaving site, except for direct emissions to air, water, and soil, which are not measured. Upstream extraction and/or processing of inputs are included within the use of the background datasets within LINA.

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks

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LCA Results.

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts									
			GWP-total	GWP-fossil	GWP-biogenic	GWP-luluc	ODP	AP	EP-freshwater
			kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CO_2 eq	kg CFC11 eq	mol H^+ eq	kg $(PO_4)^{3-}$ eq
Product stage	Raw material supply	A1	2.24E+00	2.18E+00	6.78E-02	1.79E-04	1.92E-06	1.00E-02	3.87E-04
	Transport	A2	2.31E-01	2.30E-01	1.96E-04	9.06E-05	5.33E-08	9.48E-04	1.48E-05
	Manufacturing	A3	3.78E-01	4.17E-01	-3.98E-02	4.50E-04	4.60E-08	2.22E-03	1.34E-04
	Total (Consumption grid)	A1-3	2.85E+00	2.82E+00	2.82E-02	7.20E-04	2.02E-06	1.32E-02	5.36E-04
Construction process stage	Transport	A4	1.66E-02	1.66E-02	1.42E-05	6.53E-06	3.85E-09	6.75E-05	1.07E-06
	Construction	A5	6.61E-01	5.86E-01	7.36E-02	5.18E-04	1.90E-06	2.53E-03	1.43E-04
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.66E-02	1.66E-02	1.42E-05	6.53E-06	3.85E-09	6.75E-05	1.07E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.20E-01	1.19E-01	8.26E-05	1.08E-05	3.21E-09	8.92E-05	1.52E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GWP-total = Global warming potential, total;
GWP-fossil = Global warming potential, fossil;
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 exceedance; and
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts

			EP-marine	EP-terrestrial	POCP	ADP-mineral& metals	ADP-fossil	WDP	PM
			kg N eq	mol N eq	kg NMVOC eq	kg Sb eq	MJ, net calorific value	m^3 world eq deprived	disease incidence
Product stage	Raw material supply	A1	2.36E-03	1.97E-02	7.01E-03	6.14E-06	4.39E+01	2.67E+00	3.41E-07
	Transport	A2	2.85E-04	3.11E-03	9.51E-04	8.00E-07	3.48E+00	1.57E-02	1.99E-08
	Manufacturing	A3	4.30E-04	4.50E-03	1.43E-03	9.58E-06	5.36E+00	1.46E-01	3.16E-08
	Total (Consumption grid)	A1-3	3.07E-03	2.74E-02	9.38E-03	1.65E-05	5.27E+01	2.83E+00	3.92E-07
Construction process stage	Transport	A4	2.03E-05	2.22E-04	6.80E-05	5.78E-08	2.51E-01	1.13E-03	1.43E-09
	Construction	A5	5.56E-04	5.04E-03	2.48E-03	4.99E-06	1.15E+01	3.28E-01	3.12E-08
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.03E-05	2.22E-04	6.80E-05	5.78E-08	2.51E-01	1.13E-03	1.43E-09
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	3.07E-05	3.34E-04	1.22E-04	3.49E-08	2.49E-01	1.12E-02	1.78E-09
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment;
EP-terrestrial = Eutrophication potential, accumulated exceedance;
POCP = Formation potential of tropospheric ozone;
ADP-mineral&metals = Abiotic depletion potential for non-fossil resources;
ADP-fossil = Abiotic depletion potential for fossil resources;
WDP = Water (user) deprivation potential, deprivation-weighted water consumption; and
PM = Particulate matter.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing environmental impacts							
			IRP	ETP-fw	HTP-c	HTP-nc	SQP
			kBq U^{235} eq	CTUe	CTUh	CTUh	dimensionless
Product stage	Raw material supply	A1	2.18E-02	1.93E+02	1.60E-09	7.82E-08	1.13E+00
	Transport	A2	1.79E-02	2.72E+00	8.81E-11	2.85E-09	2.39E+00
	Manufacturing	A3	5.87E-02	1.18E+01	7.69E-09	9.28E-09	7.36E+00
	Total (Consumption grid)	A1-3	9.84E-02	2.07E+02	9.37E-09	9.03E-08	1.09E+01
Construction process stage	Transport	A4	1.29E-03	1.96E-01	6.35E-12	2.06E-10	1.73E-01
	Construction	A5	3.67E-02	1.27E+01	4.96E-10	7.67E-09	1.42E+00
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	1.29E-03	1.96E-01	6.35E-12	2.06E-10	1.73E-01
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	1.19E-03	2.00E-01	1.42E-11	1.59E-10	5.93E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

IRP = Potential human exposure efficiency relative to U235;
ETP-fw = Potential comparative toxic unit for ecosystems;
HTP-c = Potential comparative toxic unit for humans;
HTP-nc = Potential comparative toxic unit for humans; and
SQP = Potential soil quality index.

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, primary energy

			PERE	PERM	PERT	PENRE	PENRM	PENRT
			MJ	MJ	MJ	MJ	MJ	MJ
Product stage	Raw material supply	A1	2.23E+00	0.00E+00	2.23E+00	3.37E+01	9.82E+00	4.35E+01
	Transport	A2	4.90E-02	0.00E+00	4.90E-02	3.42E+00	0.00E+00	3.42E+00
	Manufacturing	A3	1.21E+00	8.25E-01	2.03E+00	5.15E+00	2.75E-01	5.42E+00
	Total (Consumption grid)	A1-3	3.48E+00	8.25E-01	4.31E+00	4.23E+01	1.01E+01	5.23E+01
Construction process stage	Transport	A4	3.54E-03	0.00E+00	3.54E-03	2.47E-01	0.00E+00	2.47E-01
	Construction	A5	-1.40E-01	6.32E-01	4.92E-01	8.72E+00	2.65E+00	1.14E+01
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	3.54E-03	0.00E+00	3.54E-03	2.47E-01	0.00E+00	2.47E-01
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.45E-03	0.00E+00	4.45E-03	-1.95E+01	1.97E+01	2.44E-01
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy 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 excluding non-renewable primary 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 resource

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Parameters describing resource use, secondary materials and fuels, use of water						
			SM	RSF	NRSF	FW
			kg	MJ net calorific value	MJ net calorific value	m^3
Product stage	Raw material supply	A1	1.12E-03	0.00E+00	0.00E+00	6.22E-02
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	3.88E-04
	Manufacturing	A3	4.00E-02	8.02E-07	0.00E+00	4.32E-03
	Total (Consumption grid)	A1-3	4.11E-02	8.02E-07	0.00E+00	6.69E-02
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	2.80E-05
	Construction	A5	8.23E-04	1.60E-08	0.00E+00	7.84E-03
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	2.80E-05
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	2.63E-04
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00

SM = Use of secondary material;
RSF = Use of renewable secondary fuels;
NRSF = Use of non-renewable secondary fuels;
FW = Net use of fresh water

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing waste categories					
			HWD	NHWD	RWD
			kg	kg	kg
Product stage	Raw material supply	A1	1.80E-01	5.49E-01	1.11E-05
	Transport	A2	3.84E-03	6.81E-02	2.36E-05
	Manufacturing	A3	3.29E-01	6.35E-01	1.83E-05
	Total (Consumption grid)	A1-3	5.12E-01	1.25E+00	5.29E-05
Construction process stage	Transport	A4	2.77E-04	4.92E-03	1.70E-06
	Construction	A5	3.81E-02	6.42E-01	1.56E-05
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	2.77E-04	4.92E-03	1.70E-06
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	4.89E-04	1.01E+00	1.49E-06
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00

HWD = Hazardous waste disposed;
NHWD = Non-hazardous waste disposed;
RWD = Radioactive waste disposed

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LCA Results (continued)

(MND = module not declared; MNR = module not relevant; INA = indicator not assessed; AGG = aggregated)

Other environmental information describing output flows – at end of life								
			CRU	MFR	MER	EE	Biogenic carbon (product)	Biogenic carbon (packaging)
			kg	kg	kg	MJ per energy carrier	kg C	kg C
Product stage	Raw material supply	A1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	A2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Manufacturing	A3	0.00E+00	1.85E-02	6.60E-09	6.40E-04	0.00E+00	2.17E-02
	Total (Consumption grid)	A1-3	0.00E+00	1.85E-02	6.60E-09	6.40E-04	0.00E+00	2.17E-02
Construction process stage	Transport	A4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Construction	A5	0.00E+00	3.71E-04	1.50E-03	1.28E-05	0.00E+00	4.33E-04
End of life	Deconstruction, demolition	C1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Transport	C2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Waste processing	C3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Disposal	C4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Potential benefits and loads beyond the system boundaries	Reuse, recovery, recycling potential	D	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU = Components for reuse;
MFR = Materials for recycling

MER = Materials for energy recovery;
EE = Exported Energy

Expiry Date 28 September 2031
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Scenarios and additional technical information

Scenarios and additional technical information			
Scenario	Parameter	Units	Results
A4 – Transport to the building site	Fuel type / Vehicle type	Litre of fuel type per distance or vehicle type	Lorry 16-32 metric ton
	Distance:	km	100
	Capacity utilisation (incl. empty returns)	%	26
A5 – Installation in the building	Installation must be carried out in accordance with the relevant clauses of BS 8000-0: 2014, BS 8000-4 : 1989, this Certificate and the Certificate holder's instructions.		
	Installation wastage rate	%	2
	Reinforcement fleece	kg	0.12
	Road transport	km	100
	Waste: 20L Tin Containers	kg	0.048
	Waste: Roller sleeve	kg	0.004
	Waste: product in container	kg	0.02
	Waste: plastic wrap	kg	0.0015
Reference service life	Service life based on BBA Agrément Certificate 20/5797		
	Service life	years	30
C1 - Deconstruction	The demolition approach will vary depending on factors such as construction methodology, local geography, and the roofing substrate. Following demolition, ReadySeal will be removed from the site and disposed of to landfill in accordance with the industrial average end-of-life scenario for Paint (solvent based) defined in BRE PCR PN514 Rev 3.2, i.e, 100% landfill disposal.		
C2 - Transport	An average of 100km by road has been modelled for module C2 as a typical distance from the demolition site to the waste processing facility. However, end-users of the EPD can use this information to calculate the impacts of a bespoke transport distance for module C2 if required.	Litres per km	0.227
	Average distance to facilities	km	100
C3 – Pre processing	No pre-processing activities are considered for the Ready Seal product at the end of its service life. Therefore, the average end-of-life scenario for Paint (solvent based) specified in BRE PCR PN 514 Rev. 3.2 has been applied, assuming that 100% of the product is disposed of in a landfill.		

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Scenarios and additional technical information			
Scenario	Parameter	Units	Results
C4 - Disposal	According to the industrial average End of Life Scenario for Paint (solvent based), based on Appendix D of BRE PCR PN 514 Rev 3.2, Ready Seal products will be sent to landfill for disposal. i.e, 100% landfill disposal. Therefore, for a declared unit of 1 kg, the total mass sent to landfill is 1 kg (1 kg × 100%).	kg	1
Module D	Module D covers the net benefits and loads arising from the reuse of products or the recycling or recovery of energy from end-of-waste state materials from the construction stage. Since all ReadySeal goes to landfill, there are no Benefits and loads beyond the product system boundary to claim		

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Interpretation of results

The bulk of environmental impacts for Readyseal are attributed to the raw material manufacturing process, covered by information modules A1 – A3 of A3 of EN15804:2012+A2:2019. The GWP is higher during the raw material manufacturing stage (i.e., A1).

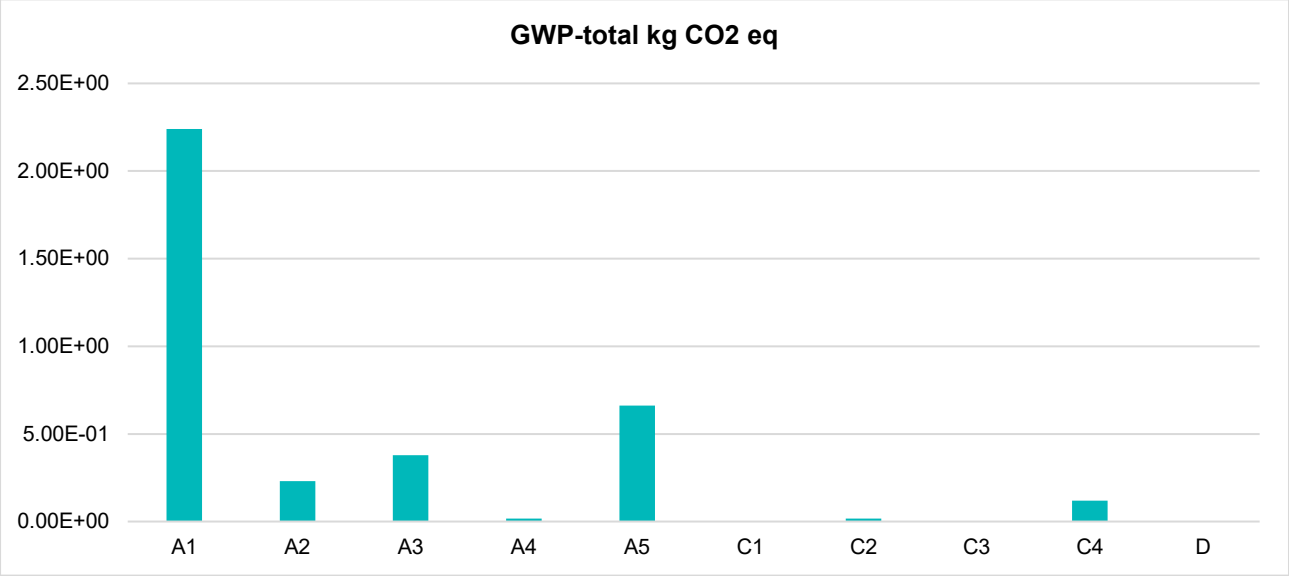


Figure 1. GWP-total for 1Kg of ReadySeal

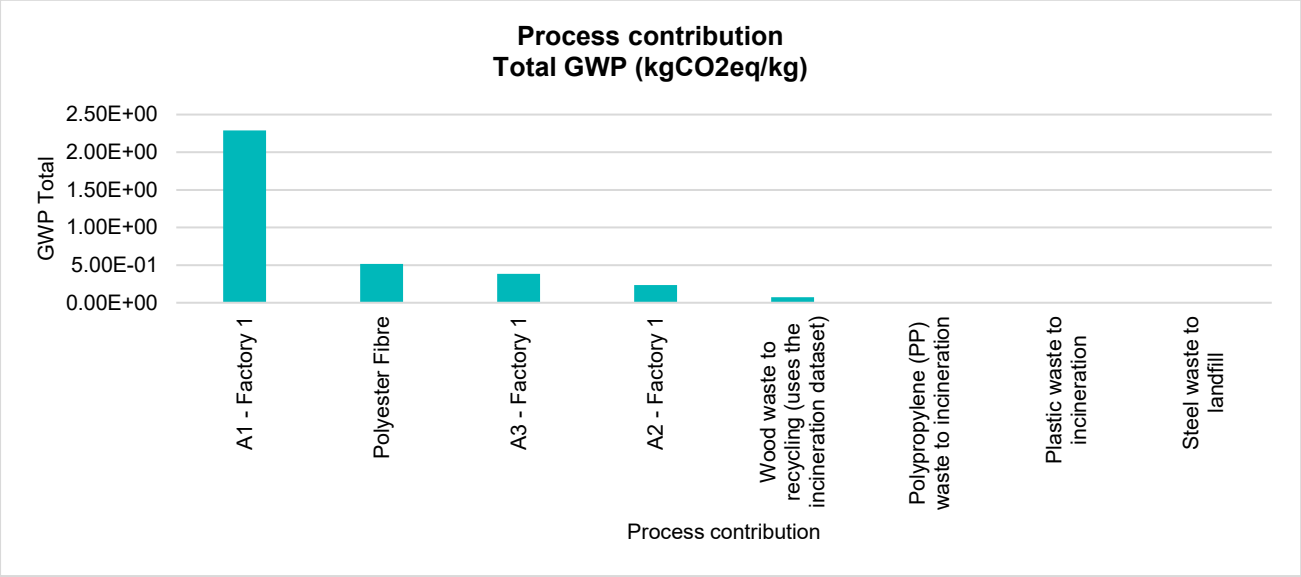


Figure 2. Process contribution. GWP-total for 1kg of ReadySeal

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