

Environmental Product Declaration



In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

GETACORE

from

Westag & Getalit AG

WESTAG 

Programme:	The International EPD® System, www.environdec.com
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An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product category rules (PCR): <i>PCR 2019:14. Construction Products And Construction Services. Version 1.1. UN CPC 3639</i>
PCR review was conducted by: <i>Valentina Fantin</i>
Independent third-party verification of the declaration and data, according to ISO 14025:2006: <input type="checkbox"/> EPD process certification <input checked="" type="checkbox"/> EPD verification
Third party verifier: <i>Valentina Fantin</i> Approved by: The International EPD® System
Procedure for follow-up of data during EPD validity involves third party verifier: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD: Westag & Getalit AG (from now on referred to as 'Westag'), Hellweg 15, 33378 Rheda-Wiedenbrück, Germany

Contact: info@westag-getalit.com

Description of the organisation: Westag is one of Europe's most prominent manufacturers of high-quality wood-based products for interior finishing and building construction. Our two locations are Rheda-Wiedenbrück and Wadersloh. At these sites, we manufacture a broad range of products — from doors, frames, kitchen worktops and window sills, to panels with high-pressure laminates, solid surface materials and coated plywood panels.

Product-related or management system-related certifications: Westag is, amongst other certification schemes, certified according to ISO 9001:2015, ISO 50001:2018, ISO 14001:2015, ISO 45001:2018, FSC and PEFC.

Name and location of production site(s): Westag & Getalit AG, Mauritz 64, 59329 Wadersloh, Germany

Product information

Product name: Getacore

Product identification: Acrylic-bonded solid surface sheet material, tested according to DIN EN ISO 19712.

Product description:

Getacore is an acrylic-bound solid surface that excels thanks to the material's exceptional dimensional stability. Durable, thermoformable, easy to clean, repairable, non-porous and seamless joint, easy start to processing. Getacore is a high performance product delivering superior colour consistency via its Made-in-Germany production process. These impressive features permit the brand's products to stand out from the competition and provide the perfect set of tools when working in the commercial, retail, residential and hospitality sectors.

Getacore customers may select from four different thicknesses, varying widths and lengths, and a wide range of colours to find the best match for their project and minimise the risk of ordering excess material. Based in the heart of Europe, the Getacore manufacturing facility is able to handle large and small orders promptly and efficiently. This results in short lead times so clients get their project off the ground quickly. Additionally, the brand offers a selection of sinks and basins in a series of contemporary styles while the company's remarkable thermoformable 3Deep technology allows designers to explore more creative solutions. To enhance one's project and keep costs in line, customers may combine Getacore products with surfaces in matching colours from partner brands FENIX^{NTM} and GetaLit®.

Example of interior applications: Kitchen and bathroom countertops, shower trays, reception and check-in counters, decorative wall surfaces, horizontal and vertical cladding on furnishings.

UN CPC code: 3639

LCA information

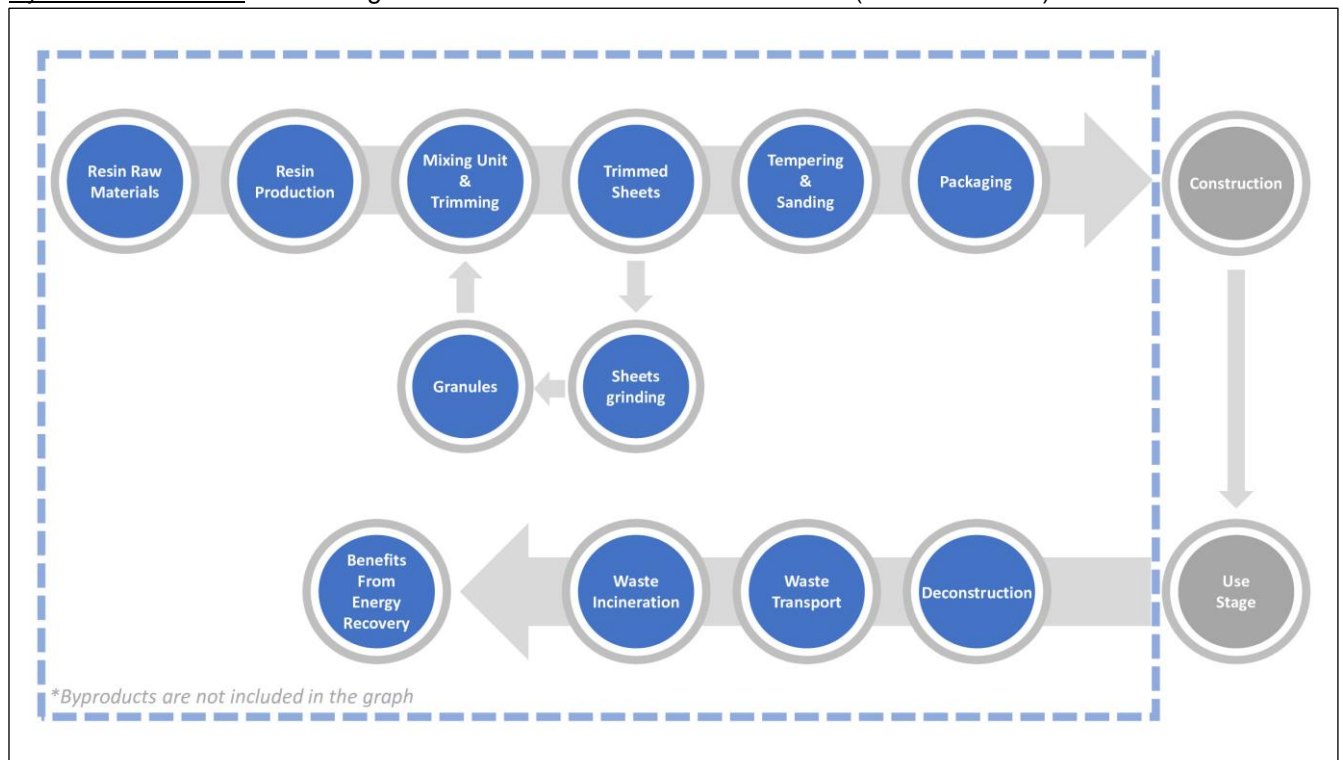
Functional unit / declared unit: In accordance to the PCR the declared unit is 1 m² of product with 3 mm thickness. The product has an area weight of 4.86 kg/m².

Reference service life: Due to the wide range of applications (e.g. desks, kitchens, wall lining) no single reference service lifetime can be established.

Time representativeness: Primary data were collected internally. The production data refer to an average of the year 2019.

Database(s) and LCA software used: The Ecoinvent database provides the life cycle inventory data for the raw and process materials obtained from the background system. The used database is Ecoinvent 3.6. The LCA software used in SimaPro 9. The German electricity mix was used in the model (0.68 kg CO₂/kWh).

System boundaries: Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D)



Allocation: During the production process milling dust is generated together with the main product Getacore. Such milling dust is sold as filler and allocation was performed on economic basis (less than 1% of the impacts are allocated to milling dust).

Data quality: The foreground data collected internally are based on yearly production amounts and extrapolations of measurements on specific machines and plants. Overall the data quality can be described as good. The primary data collection has been done thoroughly.

Cut-off criteria: In the assessment, nearly all available data from production process are considered, i.e. all raw materials used, utilised thermal energy, and electric power consumption. Thus energy flows contributing less than 1% of mass or energy are considered.

Modules declared, geographical scope, share of specific data (in GWP-GHG indicator) and data variation:

	Product stage		Construction process stage			Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

X=included; MND=module not declared

The system boundary includes the production of raw materials, all relevant transport to the factory, the manufacturing process, the deconstruction of the product, the transport of the deconstructed material to the waste processing facility with an assumed distance of 50 km. For deconstruction stage, 0.323 MJ electricity use per kg of material was assumed (Gervasio et al., 2018). For benefits beyond the system boundaries, a calorific value of 11,5 MJ per kg of product was assumed to calculate the amount of avoided natural gas use for heating.

Content information

Product components	Weight, %
Aluminium trihydrate	55
Acrylic Resin	43
Other ingredients	2

Packaging

Packaging of Getacore sheets include:

- wooden pallets
- wooden cover
- chipboard
- squared timber
- polypropylene cover sheets
- PP and PE film
- plastic strip

Westag & Getalit AG recycles and reuses mentioned products as much as possible.

Dangerous substances from the candidate list of SVHC for Authorisation

Getacore does not contain any Substances listed in the actual REACH-SVHC list nor any substances listed in the authorization list (ANNEX XIV) or the list of substances restricted under REACH (ANNEX XVII).

Environmental Information

The LCA results shown in this document, representing the impact of the average Getacore product manufactured by Westag. Methodology used: EN 15804 + A2.

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

Potential environmental impact – mandatory indicators according to EN 15804

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	3,00E+01	1,84E-01	2,23E-02	1,26E+01	0,00E+00	-1,02E+01
GWP-biogenic	kg CO ₂ eq.	1,85E-01	6,63E-03	1,27E-05	2,64E-01	0,00E+00	-3,52E-01
GWP-luluc	kg CO ₂ eq.	2,78E-03	4,98E-04	7,19E-06	4,59E-03	0,00E+00	-2,64E-02
GWP-total	kg CO ₂ eq.	3,02E+01	1,91E-01	2,24E-02	1,29E+01	0,00E+00	-1,06E+01
ODP	kg CFC 11 eq.	7,97E-07	1,75E-08	5,29E-09	9,56E-07	0,00E+00	-9,75E-07
AP	mol H ⁺ eq.	1,61E-01	1,02E-03	1,55E-04	2,96E-02	0,00E+00	-5,47E-02
EP-freshwater	kg P eq.	3,42E-03	1,85E-04	1,55E-06	4,43E-03	0,00E+00	-9,79E-03
EP-freshwater	kg PO ₄	5,47E-05	2,96E-06	2,48E-08	7,09E-05	0,00E+00	-1,57E-04
EP-marine	kg N eq.	2,70E-02	1,79E-04	6,09E-05	4,76E-03	0,00E+00	-9,59E-03
EP-terrestrial	mol N eq.	2,22E-01	1,58E-03	6,66E-04	4,71E-02	0,00E+00	-8,49E-02
POCP	kg NMVOC eq.	1,05E-01	4,23E-04	1,87E-04	2,16E-02	0,00E+00	-2,29E-02
ADP-minerals&metals*	kg Sb eq.	8,00E-05	7,48E-07	3,51E-07	4,66E-05	0,00E+00	-4,06E-05
ADP-fossil*	MJ	4,36E+02	3,84E+00	3,48E-01	4,76E+01	0,00E+00	-2,10E+02
WDP	m ³	6,03E+00	5,57E-02	1,19E-03	2,12E+00	0,00E+00	-2,96E+00

Acronyms	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 Exceedance; 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 Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption
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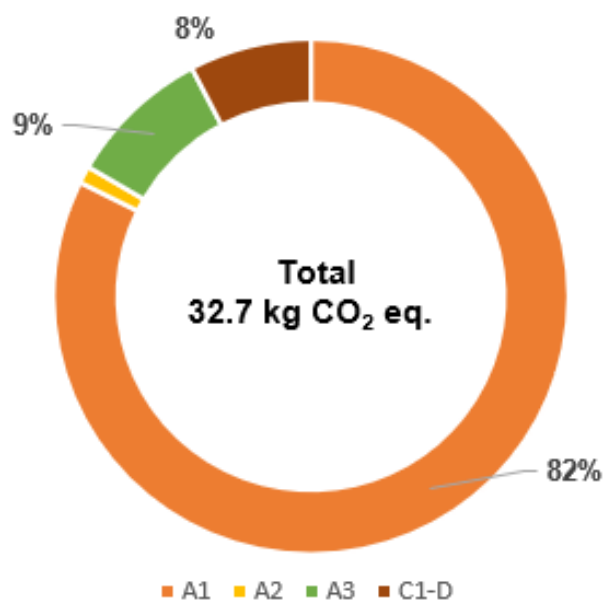
** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.*

Potential environmental impact – additional mandatory and voluntary indicators

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	3,00E+01	1,84E-01	2,23E-02	1,26E+01	0,00E+00	-1,02E+01

A1 – Raw materials stage is the biggest contributor to Global Warming Potential with 82%.

A3 – Manufacturing stage and C1 – D stages follow with 9% and 8%, respectively.



Use of resources

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	5,06E+00	6,51E-01	4,58E-03	2,93E+00	0,00E+00	-3,46E+01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	5,06E+00	6,51E-01	4,58E-03	2,93E+00	0,00E+00	-3,46E+01
PENRE	MJ	3,80E+02	3,84E+00	3,48E-01	4,76E+01	0,00E+00	-2,10E+02
PENRM	MJ.	5,59E+01	0,00E+00	0,00E+00	5,59E+01	0,00E+00	0,00E+00
PENRT	MJ	4,36E+02	3,84E+00	3,48E-01	1,03E+02	0,00E+00	-2,10E+02

¹ The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	8,75E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	1,79E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	3,75E-02	3,49E-03	4,72E-05	5,53E-02	0,00E+00	-1,85E-01

Acronyms 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 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 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

Waste production and output flows

Waste production

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed	kg	1,15E-04	1,35E-06	8,38E-07	1,25E-04	0,00E+00	-7,79E-05
Non-hazardous waste disposed	kg	3,62E+00	1,32E-02	2,99E-02	2,23E+00	0,00E+00	-7,01E-01
Radioactive waste disposed	kg	1,67E-04	2,72E-05	2,39E-06	1,28E-04	0,00E+00	-1,44E-03

Output flows

Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	4,86E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	0,00E+00	8,32E+01	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	0,00E+00	6,17E+00	0,00E+00	0,00E+00

Additional information

An extract of the technical properties of Getacore is given in the following table

PROPERTIES	NORM	UNIT	TEST VALUE
Surface Properties (Usability)			
Spots, dirt and similar surface defects	DIN EN ISO 19712	mm ² /m ²	≤ 1
Resistance against dry heat	DIN EN ISO 19712		passed
Resistance wet heat	DIN EN ISO 19712		passed
Light-fastness (Blue scale 6)	ISO 4892		passed
	ISO 105-B02		
	ISO 105-A02		
Resistance to elevated temperature (long-term exposure)	IHD-W-426	°C	70
Thermal-cycle water-resistance test	DIN EN ISO 19712		no crack formation visible
Resistance to chemicals	DIN EN ISO 19712		passed
Physical Properties			
Density	DIN EN 323	kg/m ³	≈ 1620
Weight per unit area	Internal Test	kg/m ²	Smart (3 mm): 4,8 Optimal (10 mm): 16,2 Classic (6 mm): 9,6 Classic (12 mm): 19,6 Classic Extra (20 mm): 33,9
Coefficient of thermal expansion	DIN 53752	K ⁻¹	5,6 x 10 ⁻⁵
Barcol hardness	DIN EN 59		60
Modulus of elasticity	DIN EN 310	N/mm ²	7800
Tensile strength	DIN EN ISO 527	MPa	45
Indentation hardness	DIN EN ISO 2039-1	N/mm ²	260
Impact resistance (falling-ball test)	DIN EN ISO 19712		passed
Tolerances			
Thickness tolerance	Internal Test	mm	± 0,2

For further information please refer to the MPDS (Material Properties Data Sheet) available on to the company website: www.getacore.com

References

- General Programme Instructions of the International EPD[®] System. Version 3.01.
- PCR 2019:14. Construction Products And Construction Services. Version 1.1.
- ISO 14040:2006. Environmental management. Life cycle assessment. Principles and framework.
- ISO 14044:2006. Environmental management. Life cycle assessment. Requirements and guidelines.
- UNE-EN 15804:2013 Sustainability of construction works. Environmental product declarations.
- UNE-EN 15804:2012 Sustainability of construction works. Environmental product declarations.
- Gervasio et al., 2018. Model for Life Cycle Assessment of buildings LCA, JRC Technical Reports, 2018

