Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

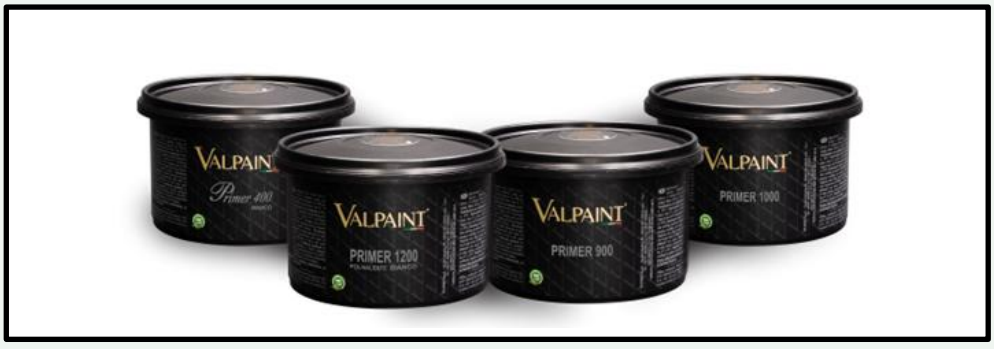
PRIMER COATINGS

From.
Valpaint S.p.a.

- PRIMER 1200
- PRIMER 1000
- PRIMER 900
- PRIMER 400

This is an EPD of a multiple-products series, based on a representative product from Valpaint S.r.l.

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products from a company
EPD registration number:	EPD-IES- 0026926:001
Version date:	2025-12-17
Validity date:	2030-11-19 *An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see 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:	support@environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): *PCR 2019:14 construction products (EN 15804:A2) version 2.0.1* + CEN standard EN 15804 + A2
PCR Review was conducted by the Technical Commitee of the international EPD System. Chairs of the PCR Review, Rob Rouwette (Chair) and Noa Meron (Co-chair).

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ **Individual EPD verification without a pre-verified LCA/EPD tool** Third Part Verifer: Bureau Veritas Italia S.p.A., Viale Monza, 347, 20126 Milano (MI) Accredited by: ACCREDIA - Accreditation certification N. 00031VV
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

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

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.
For further information about comparability, see EN 15804 and ISO 14025.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Valpaint S.p.A.
Address: Via dell'Industria, 80, 60020 Polverigi (Ancona – Italy)
Contact: Mirco Cesaretti - VALPAINT S.p.A. mirco.cesaretti@valpaint.it
Address and contact information of the LCA practitioner commissioned by the EPD owner:
Dr. Alessandra Cecchini - Manifaktura S.r.l. – Str. della Campanara 3/1 - 61122 Pesaro Italy.
Description of the organisation:
VALPAINT was officially established in 1988 and became a joint-stock company (S.p.A.) in 2004. Its origins date back to 1974 when Ferdinando Sarti, still the company's President, started a small business in the paint sector.
VALPAINT TUNISIE is the production subsidiary located in Zaghouan, 70 km from Tunis, where the same decorative paints have been produced for the North African markets with the same technical specifications and the same quality level since 2001.
The VALPAINT brand is operates in many countries in Europe and around the world, either with its own subsidiaries or companies belonging to the Group:
VALPAINT ESPAÑA S.L. - Burgos (Spain)
VALPAINT DESIGN D.O.O.:

- Sarajevo (Bosnia Herzegovina)
- Podgorica (Montenegro)
- Zagreb (Croatia)

70% of turnover abroad; exports to over 60 countries; over 800 dealers and distributors/importers in Italy and worldwide.
VALPAINT is considered one of the most technologically advanced industries thanks to the dynamic activity of its Research and Development Laboratory.
The product development process takes advantage of the most advanced scientific methods to offer consumers the very best in QUALITY and PERFORMANCE.
At VALPAINT, R&D activities are driven by a desire for continuous improvement.
In 2006 we obtained the ISO 9001 Quality certification, which was followed by the ISO 14001 environmental certification for our environmentally friendly production processes in 2009.
But there is more:

- With VALPAINT's industrial water purifier the waste of water resources is reduced and only purification sludge is disposed of in landfills. Purified water is used in our washing plant, significantly reducing the amount of water taken from the water mains;
- since 2019 we have increased the energy efficiency of our plant with the installation of a photovoltaic system.
- VALPAINT cans are Plastic Second Life certified, as at least 40% of the plastic used is recycled, traced, and complies with the quality requirements established by the Italian Institute of Plastics (IIP).
- VALPAINT catalogs and product labels are made from FSC paper. FSC paper is certified by the Forest Stewardship Council, an international non-governmental organization that promotes responsible forest management worldwide. The FSC certification guarantees that the paper is produced from sustainably managed forests, respecting the environment, local communities, and workers' rights;

- the inks used by our suppliers for printing VALPAINT catalogs are plant-based to ensure a more sustainable future.

VALPAINT has embarked on an innovative and sustainable initiative by collaborating with a startup focused on protecting bees through the use of technology. The goal of the project is to promote environmental sustainability and raise public awareness about the importance of bees for the ecosystem. The project is part of VALPAINT's broader commitment to sustainable and environmentally friendly business practices.

VALPAINT produces a wide range of decorative paints that respect the environment and human health, both in the liquid phase (chemical analyses performed on paints in liquid state) and in terms of indoor emissions.
The vast majority of VALPAINT products:

- are certified in class A+ according to French Decree No. 2011-321
- are awarded the Japanese Four Star certification for formaldehyde emissions measured according to the strict JJS A 1902-3 standard.
- have a low VOC (volatile organic compounds) contents
- comply with the strict German AgBB/ABG and Blue Angel standards, as only raw materials that allow this result to be achieved are selected during the development phase.
- do not contain polycyclic aromatic hydrocarbons (PAHs), alkylphenol ethoxylates (APEOs), ammonia, formaldehyde, or heavy metals to ensure maximum safety for users and the environment.
- are not classified as toxic according to Regulation (EC) 1272/2008 (CLP).

Renewable raw materials come from plants rather than fossil sources, and recycled raw materials help to close the life cycle of a substance: the waste product of a specific sector becomes the raw material for another activity.

The company is a model of excellence in the decorative paint sector, demonstrating how innovation and sustainability can go hand in hand. Our goal is to become completely sustainable; to this end, we invest in innovative technologies and collaborate with suppliers committed to reducing their environmental impact.

With its green products and constant commitment to sustainable production practices, VALPAINT offers high-quality decorative solutions, while contributing to protecting the planet.

<u>Product-related or management system-related certifications:</u>

- ISO 9001
- ISO 140001

PRODUCT INFORMATION

Product name: ***Primer***

Product identification :

The EPD hereby refers to a range of Primer paints for interiors.

The complete list and the description is show in the table below:

Product	Size	yield (m²/lt)	Density (gr/l)
PRIMER 1200 (representative product)	• 1 L • 2,5 L	8-10	1.550 ± 30 gr/l
PRIMER 1000	• 4 L	14-15	1.510 ± 30 gr/l
PRIMER 900	• 5 L	14-15	1.500 ± 30 gr/l
PRIMER 400	• 12 L	6-8	1.420 ± 30 gr/l

UN CPC code:

35110 Paints and varnishes and related products

Product overview:

The EPD hereby refers to a range of water based primer paintings for interiors and exteriors

Product description:

PRIMER 1200 (representative product):

PRIMER 1200 is an acryl-siloxane waterbased primer for interiors and exteriors (yield 8-10 m²/lt). The product is high-versatile due tue the fine grain texture and can be applied on sevaral surfaces as cement, plaster, plasterboard, wood and iron and even on surfaces that have already been painted.

The special material composition (resins, mineral fillers fibers) is also designed to guarantee the substrate breathability.

The product has the highest sales, therefore is considered representative for all primer painting / coating.

PRIMER 1000:
PRIMER 1200 variant wiht smoolthly higher grain dimension designer do adhere on surfaces with higher roughness /irregularity.

PRIMER 900:
PRIMER 1200 variant wiht higher grain dimension designer do adhere on surfaces with higher roughness/irregularity.

PRIMER 400:
PRIMER 1200 variant wiht higher grain dimension designer do adhere on surfaces with higher roughness/irregularity. The coarse grain give to the product phisical properties similar to a solvent in terms o surface penetration capability.

Name and location of production site(s):
VALPAINT S.p.A. - Via dell'industria, 80 - 60020 Polverigi (AN) - ITALY

Producer website: https://www.valpaint.it/

CONTENT DECLARATION

Mass (weight) of one unit of a product, as purchased or per declared unit:

1 kg of water-baser primer coating Primer 1200, manufactured by Valpaint S.p.A.

Content of the product (see Table below):

Product content	Mass [kg]	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Water	0.3210	0	0	0
Dispersions and resins	0.0880	0	0	0
Fillers	0.4550	0	0	0
Pigments	0.1000	0	0	0
Solvents	0.0110	0	0	0
Salts and simple substances	0.0153	0	0	0
Additives	0.0097	0	0	0
TOTALE	1.0000	0	0	0

The 1.0-liter bucket is the company's best-selling packaging format and is therefore used as the reference unit in this EPD.

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Corrugated board	0.0230	2.30	0.0120
Packaging film	0.0038	0.38	0.0000
Recycled plastic paint bucket	0.0590	5.90	0.0000
EUR-flat pallet	0.0238	2.38	0.0119
TOTAL	**0.1096**	**10.96%**	**0.0239**

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO_2.

Other information on substances with hazardous and toxic properties:

Preservatives (CIT/MIT, BIT) are present in concentrations below 0.1% w/w, in compliance with EU biocidal products regulation. No other hazardous substances are present in significant concentrations.

Technical characteristics of PRIMER 1200	Value
Specific weight: (ISO 2811-1)	1.550 ± 30 gr/LT. a 20°C
Viscosity	8000cps
COV on product ready to use (2004-42-CE)	< 30 g/l (cat. A/g)
Formaldehyde Emission Rate (JIS A 1902-3)	< 0.005mg/m^{2}h

LCA INFORMATION

Declared unit : 1 kg of primer coating manufactured by Valpaint
This EPD covers multiple products with results based on a representative product from the Valpaint family of Primer paints.
Product Representativeness:
The representative product is PRIMER 1200 which is the highest production volume compared to primer product line.
Reference service life: RSL is not relevant for this EPD
Time representativeness: Primary, site-specific data were collected at VALPAINT's manufacturing site and cover the period 01/01/2024–31/12/2024.

Geographical scope: The geographical scope of this EPD is Global
Database(s) and LCA software used: The Life Cycle Assessment was modelled in SimaPro (v10.2.0.3 Analyst). Background data were sourced from Ecoinvent (v311) for environmental performance indicators:15804 + A2 based on EF 3.1 characterisation facto.
Description of system boundaries:
Cradle-to-gate (A1-A3)
Declared modules:

- A1 Raw material supply: extraction, production and supply of raw materials, including upstream processes and precursors used in the formulation of PRIMER 1200
- A2 Transport: average transport of raw materials to the Valpaint production plant, modelled with weighted average distances and vehicle classes based on supplier data.
- A3 Manufacturing: mixing and dispersion of raw materials, use of auxiliaries (additives, dispersants, thickeners, preservatives), electricity and process water, packaging operations, on-site emissions to air and water, and waste management. Quality control operations are included.

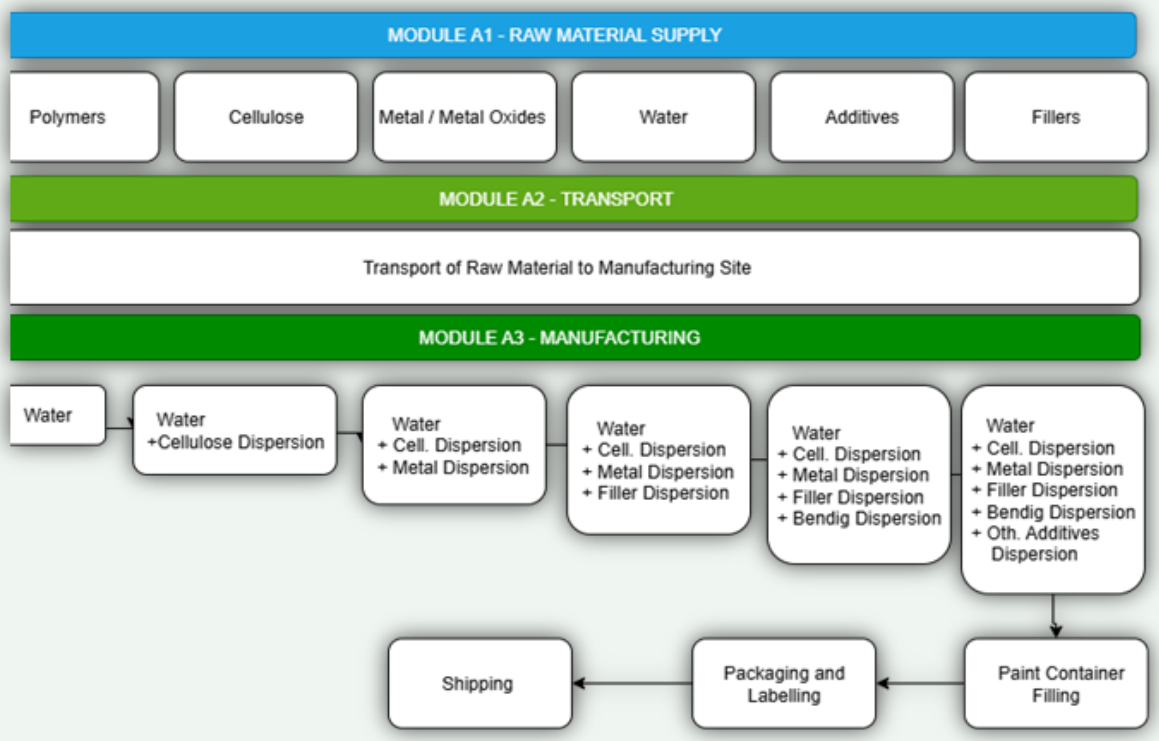
As permitted by PCR 2019:14 Construction products, version 2.0.1, the remaining life cycle stages (modules A4–A5, B1–B7, C1–C4, and D) have been excluded from the study, as the analyzed products meet the following conditions:

- The product or material is physically integrated with other products during installation and therefore cannot be physically separated from them at the end of life;
- The product or material is no longer identifiable at the end of life due to a physical or chemical transformation process;
- The product or material does not contain biogenic carbon;
- The EPD is not intended for business-to-consumer communication.

* Electricity mix: The electricity used in the production process (phase A1-A3) was modelled using the national Residual Mix provided by the AIB (Association of Issuing Bodies) for a share of 94.5%, and by the photovoltaic system for 5.5%. The GWP-HG of the electricity mixis equal to: **0.61** kg CO2eq./kWh

Cut-off: coverage ≥99% of mass and energy;

Process flow diagram:



	Product stage			Distribution/ installation stage		Use stage							End-of-life stage					Beyond product life cycle
	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Geography	EU	EU	IT	-	-	-	-	-	-	-	-	-	-	-	-	-		-
Share of primary data	14%			-	-	-	-	-	-	-	-	-	-	-	-	-		-
Variation – products	- 14,4% + 69,5%			-	-	-	-	-	-	-	-	-	-	-	-	-		-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-		-

Data source and representativeness:

A summary of the data quality assessment, in line with requirements of PCR in Section 4.6.4. is listed below. The share of primary data is calculated based on GWP-GHG results.
The EPD covers the *Primer Paint* from Valpaint factory in Polverigi Marche, Italy, which provided data for the period 2024-01-01 to 2024-12-31. The product is manufactured through a complete paint manufacturing process, including mixing and packaging.
Background data was sourced from the Ecoinvent 3.11. The data quality assessment is based on EN15804 Annex E Table E-1. In general, time representation of the dataset's selection is very good for the studied product, the technical representation is good, the geographical representation is good.
No poor or very poor data was found during the assessment of relevant data.

Process	**Source type**	**Source**	**Reference year**	**Data category**	**Share of primary data, of GWP-GHG results for A1-A3**
Generation of electricity used in manufacturing of product	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary	5.82 %
transport of raw materials to plant	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	3.99%
Packaging (LDPE, cardboard, pallet, film)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	4.19%
Raw materials (binders, fillers, TiO_2, additives)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Secondary data	0%
Total share of primary data, of GWP-GHG results for A1-A3					14,00%

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
GWP-total	kg CO2 eq	1,18E+00
GWP-biogenic	kg CO2 eq	4,76E-03
GWP-fossil	kg CO2 eq	1,18E+00
GWP-luluc	kg CO2 eq	1,16E-03
ODP	kg CFC11 eq	9,21E-06
AP	mol H+ eq	1,65E-02
EP-freshwater	kg P eq	3,68E-04
EP-marine	kg N eq	1,21E-03
EP-terrestrial	mol N eq	1,15E-02
POCP	kg NMVOC eq	5,15E-03
ADPE	kg Sb eq	7,86E-06
ADPF	MJ	1,67E+01
WDP	m3 depriv.	9,27E-01
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	

** Disclaimer: 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.*

The EPD shall include a statement, in connection to the results of the impact indicators:" The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks." The following statement, if the EPD covers the end-of-life stage: "The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3)." For services, "A1-A3" shall be replaced by "A1-A5".

Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3
GWP-GHG[1]	kg CO_2 eq.	1,18E+00

Resource use indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
PERE	MJ	2,22E+00
PERM	MJ	0.00E+00
PERT	MJ	2,22E+00
PENRE	MJ	1,79E+01
PENRM	MJ	0,00E+00
PENRT	MJ	1,79E+01
SM	kg	1.77E-02
RSF	MJ	0.00E+00
NRSF	MJ	0.00E+00
FW- fresh water	m3	2,50E-02
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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water	

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

Waste indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Hazardous waste disposed	kg	1,67E-04
Non-hazardous waste disposed	kg	5,18E-01
Radioactive waste disposed	kg	2,64E-05

Output flow indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Components for re-use	kg	0.00E+00
Material for recycling	kg	1.32E-02
Materials for energy recovery	kg	0.00E+00
Exported energy, electricity	MJ	0.00E+00
Exported energy, thermal	MJ	0.00E+00

Additional LCA results (other environmental performance results of the products

Variations information from the representative product:

LCA result of one declared unit product (A1-A3)	Unit	Min (Primer 1000)	Representative/ Average	Max (Primer 400)
GWP-GHG	kg CO2 eq	1,01E+00	1,18E+00	2,00E+00
GWP-total	kg CO2 eq	9,71E-01	1,18E+00	1,96E+00
GWP-biogenic	kg CO2 eq	0,00E+00	4,76E-03	0,00E+00
GWP-fossil	kg CO2 eq	1,01E+00	1,18E+00	1,99E+00
GWP-luluc	kg CO2 eq	1,11E-03	1,16E-03	4,19E-03
ODP	kg CFC11 eq	2,01E-08	9,21E-06	3,77E-08
AP	mol H+ eq	1,52E-02	1,65E-02	3,56E-02
EP-freshwater	kg P eq	3,19E-04	3,68E-04	6,60E-04
EP-marine	kg N eq	1,01E-03	1,21E-03	2,11E-03
EP-terrestrial	mol N eq	9,42E-03	1,15E-02	1,90E-02
POCP	kg NMVOC eq	4,53E-03	5,15E-03	9,21E-03
ADPE	kg Sb eq	7,17E-06	7,86E-06	1,26E-05
ADPF	MJ	1,48E+01	1,67E+01	2,80E+01
WDP	m3 depriv.	8,88E-01	9,27E-01	1,96E+00
PERE	MJ	1,91E+00	2,22E+00	3,29E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,91E+00	2,22E+00	3,29E+00
PENRE	MJ	1,59E+01	1,79E+01	2,99E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,59E+01	1,79E+01	2,99E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00
FW - fresh water	m3	2,36E-02	2,50E-02	5,13E-02

ABBREVIATIONS

All abbreviations used in the EPD must be added. Please add all the abbreviations used.

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
ND	Not Declared

REFERENCES

a) General Programme Instructions of the International EPD® System, Version 5.0.1, 2024.
b) EN 15804:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.
c) PCR 2019:14, Construction products, Version 2.0.1, The International EPD® System.
d) ISO 14040:2006, Environmental management – Life cycle assessment – Principles and framework.
e) ISO 14044:2006, Environmental management – Life cycle assessment – Requirements and guidelines.
f) ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.
g) Central Product Classification (CPC) Version 2.1, United Nations Statistics Division, New York, 2015.
i) Database: Ecoinvent v3.11,The Ecoinvent Centre, Zurich, 2024.
j) LCA Study: Life Cycle Assessment ”Primer Paint Products – Valpaint” developed in 2025 according to ISO 14040–14044 and EN 15804:2021

VERSION HISTORY

Original Version of the EPD, 2025-10-13

EPD
INTERNATIONAL EPD SYSTEM

www.environdec.com

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Flake-Based Decorative Coating / Paint

From
Valpaint S.p.a.

Products included:

- ARTECO' 7.
- ARTECO' 7 METAL
- KLONDIKE
- KLONDIKE LIGHT
- C100 OVER

This is an EPD of a multiple-products series, based on a representative product.

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products from a company
EPD registration number:	EPD-IES- 0026925:001
Version date:	2025-12-17
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E-mail:	support@environdec.com

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Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

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Contact: Mirco Cesaretti - VALPAINT S.p.A. mirco.cesaretti@valpaint.it
Address and contact information of the LCA practitioner commissioned by the EPD owner:
Dr. Alessandra Cecchini - Manifaktura S.r.l. – Str. della Campanara 3/1 - 61122 Pesaro Italy.
Description of the organisation:
VALPAINT was officially established in 1988 and became a joint-stock company (S.p.A.) in 2004. Its origins date back to 1974 when Ferdinando Sarti, still the company's President, started a small business in the paint sector.
VALPAINT TUNISIE is the production subsidiary located in Zaghouan, 70 km from Tunis, where the same decorative paints have been produced for the North African markets with the same technical specifications and the same quality level since 2001.
The VALPAINT brand is operates in many countries in Europe and around the world, either with its own subsidiaries or companies belonging to the Group:
VALPAINT ESPAÑA S.L. - Burgos (Spain)
VALPAINT DESIGN D.O.O.:

- Sarajevo (Bosnia Herzegovina)
- Podgorica (Montenegro)
- Zagreb (Croatia)

70% of turnover abroad; exports to over 60 countries; over 800 dealers and distributors/importers in Italy and worldwide.
VALPAINT is considered one of the most technologically advanced industries thanks to the dynamic activity of its Research and Development Laboratory.
The product development process takes advantage of the most advanced scientific methods to offer consumers the very best in QUALITY and PERFORMANCE.
At VALPAINT, R&D activities are driven by a desire for continuous improvement.
In 2006 we obtained the ISO 9001 Quality certification, which was followed by the ISO 14001 environmental certification for our environmentally friendly production processes in 2009.
But there is more:

- With VALPAINT's industrial water purifier the waste of water resources is reduced and only purification sludge is disposed of in landfills. Purified water is used in our washing plant, significantly reducing the amount of water taken from the water mains;
- since 2019 we have increased the energy efficiency of our plant with the installation of a photovoltaic system.
- VALPAINT cans are Plastic Second Life certified, as at least 40% of the plastic used is recycled, traced, and complies with the quality requirements established by the Italian Institute of Plastics (IIP).
- VALPAINT catalogs and product labels are made from FSC paper. FSC paper is certified by the Forest Stewardship Council, an international non-governmental organization that promotes responsible forest management worldwide. The FSC certification guarantees that the paper is produced from sustainably managed forests, respecting the environment, local communities, and workers' rights;
- the inks used by our suppliers for printing VALPAINT catalogs are plant-based to ensure a more sustainable future.

VALPAINT has embarked on an innovative and sustainable initiative by collaborating with a startup focused on protecting bees through the use of technology. The goal of the project is to promote environmental sustainability and raise public awareness about the importance of bees for the ecosystem. The project is part of VALPAINT's broader commitment to sustainable and environmentally friendly business practices.

VALPAINT produces a wide range of decorative paints that respect the environment and human health, both in the liquid phase (chemical analyses performed on paints in liquid state) and in terms of indoor emissions.
The vast majority of VALPAINT products:

- are certified in class A+ according to French Decree No. 2011-321
- are awarded the Japanese Four Star certification for formaldehyde emissions measured according to the strict JJS A 1902-3 standard.
- have a low VOC (volatile organic compounds) contents
- comply with the strict German AgBB/ABG and Blue Angel standards, as only raw materials that allow this result to be achieved are selected during the development phase.
- do not contain polycyclic aromatic hydrocarbons (PAHs), alkylphenol ethoxylates (APEOs), ammonia, formaldehyde, or heavy metals to ensure maximum safety for users and the environment.
- are not classified as toxic according to Regulation (EC) 1272/2008 (CLP).

Renewable raw materials come from plants rather than fossil sources, and recycled raw materials help to close the life cycle of a substance: the waste product of a specific sector becomes the raw material for another activity.

The company is a model of excellence in the decorative paint sector, demonstrating how innovation and sustainability can go hand in hand. Our goal is to become completely sustainable; to this end, we invest in innovative technologies and collaborate with suppliers committed to reducing their environmental impact.

With its green products and constant commitment to sustainable production practices, VALPAINT offers high-quality decorative solutions, while contributing to protecting the planet.

<u>Product-related or management system-related certifications:</u>

- ISO 9001
- ISO 140001

PRODUCT INFORMATION

Product name: ***Flake-Based Decorative Coating / Paint***

Product identification :

The EPD hereby refers to a range of water based Flake-Based Decorative Coating paints for interiors with different visual effects (antique, pearlescent, antique metallic, cement).

The complete list and the description is show in the table below:

Product	Size	Density	yield (m²/lt)
ARTECO' 7 (representative product)	• 1 L • 2,5 L • 4 L • 5 L • 12 L	1.02 kg/l	7
ARTECO' 7 METAL		1.10 kg/l	8
KLONDIKE		1.02 kg/l	4
KLONDIKE LIGHT		1.01 kg/l	5
C100 OVER		1.02 kg/l	4

UN CPC code:

35110 Paints and varnishes and related products

Product description:

ARTECO' 7 (representative product):

Versatile and visually water-based paint for indoor use (yield 7-8 m²/lt), able to create antique effects on finishing surfaces.

The product has the highest sales, therefore is considered representative for all Flake-Based Decorative Coating / Paint.

ARTECO' 7 METAL:

Water based paint for indoor use (yield 8-10 m²/lt), with pearlescent and satined effect due to iron oxide pigmentation on painting composition

KLONDIKE:

Water-based interior coating for antique metallic effects (yield 4-5 m²/lt),; the luminescent effect results from forged metal fragments incorporated in the paint

KLONDIKE LIGHT:

Water-based interior coating for antique metallic effects (yield 5-6 m²/lt),; the luminescent effect results from forged metal fragments incorporated in the paint

The slightly different metallic composition gives a brighter visual effect compared to KLONDIKE.

C-100 OVER:

Water-based interior coating (yield 4-5 m²/lt) to reply, due to a specific metal oxide composition, the visual effect of the cement.

All products in the Flake-Based Decorative Coating / Paint family are available in packaging sizes of **1, 2.5, 4, 5 and 12 litres**. However, the representative product studied in this EPD is **1 kg of ARTECÒ 7**, which is used as the declared unit for the life-cycle assessment.
Name and location of production site(s):
VALPAINT S.p.A. - Via dell'industria, 80 - 60020 Polverigi (AN) - ITALY

Producer website: https://www.valpaint.it/

CONTENT DECLARATION

The mass (weight) of one unit of a product, as purchased or per declared unit:

1 kg of Flake-Based Decorative Coating / Paint decorative paint (Artecò 7), manufactured by Valpaint S.p.A.

Content of the product (see Table below):

Product content Arteco' 7	Mass [Kg] Arteco' 7	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Water	0.827	0	0	0
Dispersions and resins	0.091	0	0	0
Fillers	0.014	0	0	0
Pigments	0.035	0	0	0
Solvents	0.008	0	0	0
Salts and simple substances	0.002	0	0	0
Additives	0.023	0	0	0
TOTALE	**1.000**	0	0	0

The 2.5-liter bucket is the company's best-selling packaging format and is therefore used as the reference unit in this EPD.

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Corrugated board	0.0180	1.80	0.009
Packaging film	0.0045	0.45	0.000
Recycled plastic paint bucket	0.0860	8.60	0.000
EUR-flat pallet	0.0238	2.38	0.0119
TOTAL	**0.1323**	13.23%	**0.0128**

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO_2.

Other information on substances with hazardous and toxic properties:

Preservatives (CIT/MIT, BIT) are present in concentrations below 0.1% w/w, in compliance with EU biocidal products regulation. No other hazardous substances are present in significant concentrations.

LCA INFORMATION

Declared unit : 1 kg of *Flake-Based Decorative Coating / Paint Arteco' 7* manufactured by Valpaint
This EPD covers multiple products with results based on a representative product from the Valpaint family of Flake-Based Decorative Coating / Paint
Product Representativeness:
The representative product is ARTECO' 7 which is the one with the highest production volume compared to product line. .
Conversion factor to mass if mass is not used as functional/declared unit: 1 Kg = 0.98 L = 6,86 m^2
Reference service life: RSL is not relevant for this EPD
Time representativeness: Primary, site-specific data were collected at VALPAINT's manufacturing site and cover the period 01/01/2024–31/12/2024.
Geographical scope: The geographical scope of this EPD is Global
Database(s) and LCA software used: The Life Cycle Assessment was modelled in SimaPro (v10.2.0.3 Analyst). Background data were sourced from Ecoinvent (v3.11) for environmental performance indicators:15804 + A2 based on EF 3.1 characterisation factor
Description of system boundaries:
Cradle-to-gate (A1-A3)
Declared modules:

- A1 Raw material supply: extraction, production and supply of raw materials, including upstream processes and precursors used in the formulation of Artecò 7.
- A2 Transport: average transport of raw materials to the Valpaint production plant, modelled with weighted average distances and vehicle classes based on supplier data.
- A3 Manufacturing: mixing and dispersion of raw materials, use of auxiliaries (additives, dispersants, thickeners, preservatives), electricity and process water, packaging operations, on-site emissions to air and water, and waste management. Quality control operations are included.

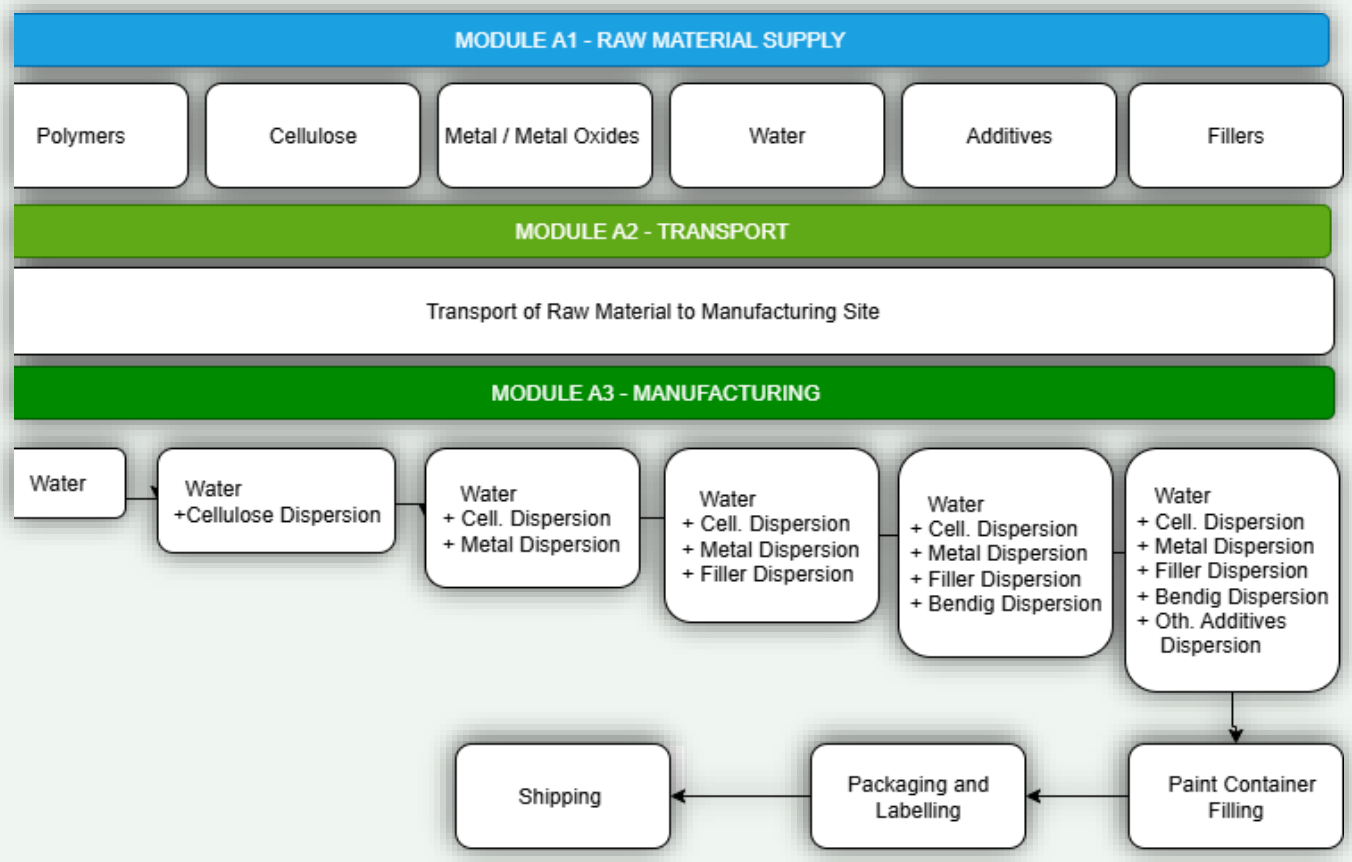
As permitted by PCR 2019:14 Construction products, version 2.0.1, the remaining life cycle stages (modules A4–A5, B1–B7, C1–C4, and D) have been excluded from the study, as the analyzed products meet the following conditions:

- The product or material is physically integrated with other products during installation and therefore cannot be physically separated from them at the end of life;
- The product or material is no longer identifiable at the end of life due to a physical or chemical transformation process;
- The product or material does not contain biogenic carbon;
- The EPD is not intended for business-to-consumer communication.

* Electricity mix: The electricity used in the production process (phase A1-A3) was modelled using the national Residual Mix provided by the AIB (Association of Issuing Bodies) for a share of 94.5%, and by the photovoltaic system for 5.5%. The GWP-GHG of the electricity mix is equal to: **0.61** kg CO2eq./kWh

Cut-off: coverage ≥99% of mass and energy;

Process flow diagram:



	Product stage			Distribution/ installation stage		Use stage							End-of-life stage				Beyond product life cycle
	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Geography	EU	EU	IT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Share of primary data	20.94%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	-19.9% +9.4%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data source and representativeness:

A summary of the data quality assessment, in line with requirements of PCR in Section 4.6.4. is listed below. The share of primary data is calculated based on GWP-GHG results.
The EPD covers the *Flake-Based Decorative Coating / Paint* from Valpaint factory in Polverigi Marche, Italy, which provided data for the period 2024-01-01 to 2024-12-31. The product is manufactured through a complete paint manufacturing process, including mixing and packaging.
Background data was sourced from the Ecoinvent 3.11. The data quality assessment is based on EN15804 Annex E Table E-1. In general, time representation of the dataset's selection is very good for the studied product, the technical representation is good, the geographical representation is good.
No poor or very poor data was found during the assessment of relevant data.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Generation of electricity used in manufacturing of product	Collected data Database	Valpaint Ecoinvent v3.11	2024	PrimaryData	10.24 %
transport of raw materials to plant	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	3.52%
Packaging (LDPE, cardboard, pallet, film)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	7.18%
Raw materials (binders, fillers, TiO_2, additives)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Secondary data	0%
Total share of primary data, of GWP-GHG results for A1-A3					20,94%

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804 (Representative Product)

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
GWP-total	kg CO2 eq	6,58E-01
GWP-biogenic	kg CO2 eq	-1,19E-02
GWP-fossil	kg CO2 eq	6.67E-01
GWP-luluc	kg CO2 eq	2.89E-03
ODP	kg CFC11 eq	1.46E-08
AP	mol H+ eq	6.92E-03
EP-freshwater	kg P eq	2.09E-04
EP-marine	kg N eq	6.46E-04
EP-terrestrial	mol N eq	6.09E-03
POCP	kg NMVOC eq	2.85E-03
ADPE	kg Sb eq	4.69E-06
ADPF	MJ	1.10E+01
WDP	m3 depriv.	4.48E-01
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	

** Disclaimer: 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.*

The estimated impact results are only relative statements. which do not indicate the endpoints of the impact categories. exceeding threshold values. safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3
GWP-GHG[1]	kg CO_2 eq.	6.72E-01

Resource use indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
PERE	MJ	1.76E+00
PERM	MJ	0.00E+00
PERT	MJ	1.76E+00
PENRE	MJ	1.18E+01
PENRM	MJ	0.00E+00
PENRT	MJ	1.18E+01
SM	kg	2.59E-02
RSF	MJ	0.00E+00
NRSF	MJ	0.00E+00
FW- fresh water	m3	1.24E-02
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 re-sources; 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 indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Hazardous waste disposed	kg	1,07E-04
Non-hazardous waste disposed	kg	2,03E-01
Radioactive waste disposed	kg	1,58E-05

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

Output flow indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Components for re-use	kg	0.00E+00
Material for recycling	kg	1.32E-02
Materials for energy recovery	kg	0.00E+00
Exported energy, electricity	MJ	0.00E+00
Exported energy, thermal	MJ	0.00E+00

Additional LCA results (other environmental performance results of the products

Variations information from the representative product:

LCA result of one declared unit product (A1-A3)	Unit	Min (Klondike)	Representative/ Average	Max (C100)
GWP-GHG	kg CO2 eq	5.38E-01	6.72E-01	7.35E-01
GWP-total	kg CO2 eq	4,85E-01	6,15E-01	6,85E-01
GWP-biogenic	kg CO2 eq	0.00E+00	0.00E+00	0.00E+00
GWP-fossil	kg CO2 eq	5,34E-01	6,67E-01	7,30E-01
GWP-luluc	kg CO2 eq	2,49E-03	2,89E-03	3,04E-03
ODP	kg CFC11 eq	1,21E-08	1,46E-08	1,59E-08
AP	mol H+ eq	4,06E-03	6,92E-03	6,69E-03
EP-freshwater	kg P eq	1,52E-04	2,09E-04	2,20E-04
EP-marine	kg N eq	5,07E-04	6,46E-04	6,96E-04
EP-terrestrial	mol N eq	4,98E-03	6,09E-03	6,75E-03
POCP	kg NMVOC eq	2,30E-03	2,85E-03	3,20E-03
ADPE	kg Sb eq	3,87E-06	4,69E-06	5,72E-06
ADPF	MJ	9,13E+00	1,10E+01	1,24E+01
WDP	m3 depriv.	2,96E-01	4,48E-01	4,69E-01
PERE	MJ	1,71E+00	1,76E+00	1,92E+00
PERM	MJ	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1,71E+00	1,76E+00	1,92E+00
PENRE	MJ	9,77E+00	1,18E+01	1,33E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00

PENRT	MJ	9,77E+00	1,18E+01	1,33E+01
SM	kg	2.59E-02	2.59E-02	2.59E-02
RSF	MJ	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00
FW - fresh water	m3	8,55E-03	1,24E-02	1,31E-02

ABBREVIATIONS

All abbreviations used in the EPD must be added. Please add all the abbreviations used.

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
ND	Not Declared

REFERENCES

a) General Programme Instructions of the International EPD® System, Version 5.0.1, 2024.
b) EN 15804:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.
c) PCR 2019:14, Construction products, Version 2.0.1, The International EPD® System.
d) ISO 14040:2006, Environmental management – Life cycle assessment – Principles and framework.
e) ISO 14044:2006, Environmental management – Life cycle assessment – Requirements and guidelines.
f) ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.
g) Central Product Classification (CPC) Version 2.1, United Nations Statistics Division, New York, 2015.
i) Database: Ecoinvent v3.11,The Ecoinvent Centre, Zurich, 2024.
j) LCA Study: Life Cycle Assessment ”Flake-Based Decorative Coating / Paint Products – Valpaint” developed in 2025 according to ISO 14040–14044 and EN 15804:2021

VERSION HISTORY

Original Version of the EPD, 2025-xx-xx

EPD
INTERNATIONAL EPD SYSTEM
www.environdec.com

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Sanded Decorative Coating / Paint

From
Valpaint S.p.a.

Products included:

- SABULADOR LUX
- SABULADOR MATT
- SABULADOR SOFT 100
- SABULADOR SOFT GESSO

This is an EPD of a multiple-products series, based on a representative product

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products from a company
EPD registration number:	EPD-IES-0026927:001
Version date	2025-12-17
Validity date:	2030-11-19

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see 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:	support@environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): *PCR 2019:14 construction products (EN 15804:A2) version 2.0.1* + CEN standard EN 15804 + A2
PCR Review was conducted by the Technical Commitee of the international EPD System. Chairs of the PCR Review, Rob Rouwette (Chair) and Noa Meron (Co-chair).

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ **Individual EPD verification without a pre-verified LCA/EPD tool** Third Part Verifer: Bureau Veritas Italia S.p.A., Viale Monza, 347, 20126 Milano (MI) Accredited by: ACCREDIA - Accreditation certification N. 00031VV
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

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

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.
For further information about comparability, see EN 15804 and ISO 14025

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Valpaint S.p.A.
Address: Via dell'Industria, 80, 60020 Polverigi (Ancona – Italy)
Contact: Mirco Cesaretti - VALPAINT S.p.A. - mirco.cesaretti@valpaint.it
Address and contact information of the LCA practitioner commissioned by the EPD owner:
Dr. Alessandra Cecchini - Manifaktura S.r.l. – Str. della Campanara 3/1 - 61122 Pesaro Italy.
Description of the organisation:
VALPAINT was officially established in 1988 and became a joint-stock company (S.p.A.) in 2004. Its origins date back to 1974 when Ferdinando Sarti, still the company's President, started a small business in the paint sector.
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- ISO 140001

PRODUCT INFORMATION

Product name: ***Sanded Decorative Coating / Paint***

Product identification:

The EPD hereby refers to a range of water based Decorative Coating paints for interiors with special luminescent sandy reflections

The complete list and the description is show in the table below:

Product	Size	Density (gr/l a 25°C)	yield (m²/lt)
SABULADOR LUX (representative product)	• 1 L • 2,5 L • 4 L • 5 L	1.380 ± 30	8-9
SABULADOR MATT		1.330 ± 30	8-9
SABULADOR SOFT 100		1.100 ± 30	8-9
SABULADOR SOFT GESSO		1.120 ± 30	3-4

UN CPC code:

35110 Paints and varnishes and related products

Product description:

SABULADOR LUX (representative product):

SABULADOR LUX is decorative water-based painting for interiors (yield 8-9 m²/lt) able to create a luminous effect with special luminescent sandy reflections due to silicae based material to the coating. The product is the one that identifies, by its own chromatic characteristics, all the product line for the market; therefore is considered representative for all sandy painting.

SABULADOR MATT

The product a is decorative water-based painting for interiors (yield 8-9 m²/lt) able to create a luminous effect with special luminescent sandy reflections due to silicae based material to the coating. The painting material blend, differently from lead product SABULADOR LUX, is designed to give a sandy matt lighting effect

SABULADOR SOFT 100

Decorative water-based painting for interiors (yield 9-10 m²/lt) able to create a luminous effect with special luminescent sandy reflections. The lighting effect is fainter compared do lead product SABULADOR LUX. The painting is also completely washable and overpaintable with any other water-based paint.

SABULADOR SOFT GESSO

SABULADOR SOFT chromatic variant for a chalky (gypsum) effect

All products in the Water-based Sanded Decorative Coating / Paint family are available in packaging sizes of **1, 2.5, 4, and 5 litres**. However, the representative product studied in this EPD is **1 kg of SABULADOR LUX**, which is used as the declared unit for the life-cycle assessment.

Name and location of production site(s):

VALPAINT S.p.A. - Via dell'industria, 80 - 60020 Polverigi (AN) - ITALY

Producer website: https://www.valpaint.it/

CONTENT DECLARATION

The mass (weight) of one unit of a product, as purchased or per declared unit:

1 kg of sanded paint (Sabulador Lux), manufactured by Valpaint S.p.A.

Content of the product (see Table below):

Product content Sabulador Lux	Mass [Kg] Sabulador Lux	Post-consumer recycled material, mass- % of product	Biogenic material, mass- % of product	Biogenic material, kg C/product or declared unit
Water	0.4867	0	0	0
Dispersions and resins	0.3500	0	0	0
Fillers	0.0300	0	0	0
Pigments	0.0700	0	0	0
Solvents	0.0300	0	0	0
Salts and simple substances	0.0005	0	0	0
Additives	0.0328	0	0	0
TOTALE	1.0000	0	0	0

The 1.0-liter bucket is the company's best-selling packaging format and is therefore used as the reference unit in this EPD.

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Corrugated board	0.0230	2.30	0.012
Packaging film	0.0038	0.38	0
Recycled plastic paint bucket	0.0590	5.90	0
EUR-flat pallet	0.0238	2.38	0.0119
TOTAL	**0.1096**	**10.96%**	**0.0239**

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO_2.

Other information on substances with hazardous and toxic properties:

Preservatives (CIT/MIT, BIT) are present in concentrations below 0.1% w/w, in compliance with EU biocidal products regulation. No other hazardous substances are present in significant concentrations.

LCA INFORMATION

Declared unit : 1 kg of S*anded Decorative coating / paint Sabulador Lux* manufactured by Valpaint
This EPD covers multiple products with results based on a representative product from the Valpaint family of Sanded Decorative coating / paint
Product Representativeness:
The representative product is SABULADOR LUX which is the one with the highest production volume compared to product line.
Conversion factor to mass if mass is not used as functional/declared unit: 1 Kg = 0.72 L = 5,80 m^2
Reference service life: RSL is not relevant for this EPD
Time representativeness: Primary, site-specific data were collected at VALPAINT's manufacturing site and cover the period 01/01/2024–31/12/2024.
Geographical scope: The geographical scope of this EPD is Global
Database(s) and LCA software used: The Life Cycle Assessment was modelled in SimaPro (v10.2.0.3 Analyst). Background data were sourced from Ecoinvent (v311) for environmental performance indicators:15804 + A2 based on EF 3.1 characterisation factor
Description of system boundaries:
Cradle-to-gate (A1-A3)
Declared modules:

- A1 Raw material supply: extraction, production and supply of raw materials, including upstream processes and precursors used in the formulation of Sabulador Lux
- A2 Transport: average transport of raw materials to the Valpaint production plant, modelled with weighted average distances and vehicle classes based on supplier data.
- A3 Manufacturing: mixing and dispersion of raw materials, use of auxiliaries (additives, dispersants, thickeners, preservatives), electricity and process water, packaging operations, on-site emissions to air and water, and waste management. Quality control operations are included.

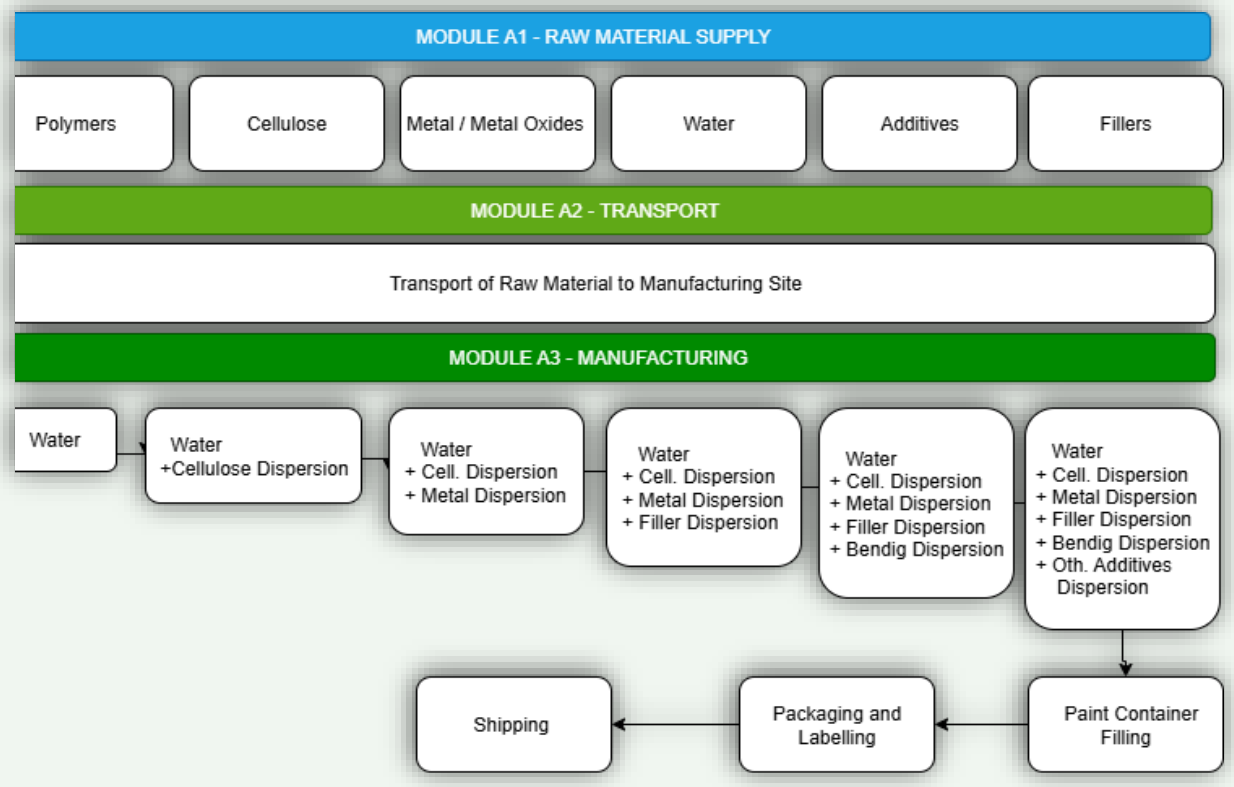
As permitted by PCR 2019:14 Construction products, version 2.0.1, the remaining life cycle stages (modules A4–A5, B1–B7, C1–C4, and D) have been excluded from the study, as the analysed products meet the following conditions:

- The product or material is physically integrated with other products during installation and therefore cannot be physically separated from them at the end of life;
- The product or material is no longer identifiable at the end of life due to a physical or chemical transformation process;
- The product or material does not contain biogenic carbon;
- The EPD is not intended for business-to-consumer communication.

* Electricity mix: The electricity used in the production process (phase A1-A3) was modelled using the national Residual Mix provided by the AIB (Association of Issuing Bodies) for a share of 94.5%, and by the photovoltaic system for 5.5%. The GWP-GHG of the electricity mix is equal to: **0.61** kg CO2eq./kWh

Cut-off: coverage ⩾99% of mass and energy;

Process flow diagram:



	Product stage			Distribution/ installation stage		Use stage							End-of-life stage				Beyond product life cycle
	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Geography	EU	EU	IT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Share of primary data	27,52%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	< + 16,36%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data source and representativeness:

A summary of the data quality assessment, in line with requirements of PCR in Section 4.6.4. is listed below. The share of primary data is calculated based on GWP-GHG results.
The EPD covers the *Sanded Decorative Coating / Paint* from Valpaint factory in Polverigi Marche, Italy, which provided data for the period 2024-01-01 to 2024-12-31. The product is manufactured through a complete paint manufacturing process, including mixing and packaging.
Background data was sourced from the Ecoinvent 3.11. The data quality assessment is based on EN15804 Annex E Table E-1. In general, time representation of the dataset's selection is very good for the studied product, the technical representation is good, the geographical representation is good.
No poor or very poor data was found during the assessment of relevant data.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Generation of electricity used in manufacturing of product	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary Data	6.24 %
transport of raw materials to plant	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	16.78%
Packaging (LDPE, cardboard, pallet, film)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	4.50%
Raw materials (binders, fillers, TiO_2, additives)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Secondary data	0%
Total share of primary data, of GWP-GHG results for A1-A3					27,52%

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804 (Representative Product)

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
GWP-total	kg CO2 eq	1,10E+00
GWP-biogenic	kg CO2 eq	-3,96E-03
GWP-fossil	kg CO2 eq	1,10E+00
GWP-luluc	kg CO2 eq	1,10E-03
ODP	kg CFC11 eq	7,97E-08
AP	mol H+ eq	4,05E-03
EP-freshwater	kg P eq	2,70E-04
EP-marine	kg N eq	7,80E-04
EP-terrestrial	mol N eq	7,97E-03
POCP	kg NMVOC eq	4,45E-03
ADPE	kg Sb eq	6,30E-06
ADPF	MJ	2,10E+01
WDP	m3 depriv.	4,27E-01
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	

** Disclaimer: 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.*

The estimated impact results are only relative statements. which do not indicate the endpoints of the impact categories. exceeding threshold values. safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3
GWP-GHG[1]	kg CO_2 eq.	1,10E+00

Resource use indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
PERE	MJ	1,80E+00
PERM	MJ	0,00E+00
PERT	MJ	1,80E+00
PENRE	MJ	2,26E+01
PENRM	MJ	0,00E+00
PENRT	MJ	2,26E+01
SM	kg	3,54E--02
RSF	MJ	0,00E+00
NRSF	MJ	0,00E+00
FW- fresh water	m3	1,24E-02
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 re-sources; 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 indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Hazardous waste disposed	kg	1,75E-04
Non-hazardous waste disposed	kg	1,35E-01
Radioactive waste disposed	kg	2,02E-05

Output flow indicators

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Components for re-use	kg	0,00E+00
Material for recycling	kg	1.32E-02
Materials for energy recovery	kg	0,00E+00
Exported energy, electricity	MJ	0,00E+00
Exported energy, thermal	MJ	0,00E+00

Additional LCA results (other environmental performance results of the products

Variations information from the representative product:

LCA result of one declared unit product (A1-A3)	Unit	Min (Sabulador Matt)	Representative (sabulador Lux)	Max (Sabulador soft gesso)
GWP-GHG	kg CO2 eq	1,10E+00	1,10E+00	1,28E+00
GWP-total	kg CO2 eq	1,10E+00	1,10E+00	1,23E+00
GWP-biogenic	kg CO2 eq	-3,96E-03	-3,96E-03	0,00E+00
GWP-fossil	kg CO2 eq	1,10E+00	1,10E+00	1,28E+00
GWP-luluc	kg CO2 eq	1,10E-03	1,10E-03	1,39E-03
ODP	kg CFC11 eq	7,97E-08	7,97E-08	2,90E-08
AP	mol H+ eq	4,05E-03	4,05E-03	6,55E-03
EP-freshwater	kg P eq	2,70E-04	2,70E-04	3,34E-04
EP-marine	kg N eq	7,80E-04	7,80E-04	1,00E-03
EP-terrestrial	mol N eq	7,97E-03	7,97E-03	1,00E-02
POCP	kg NMVOC eq	4,45E-03	4,45E-03	5,23E-03
ADPE	kg Sb eq	6,30E-06	6,30E-06	9,16E-06
ADPF	MJ	2,10E+01	2,10E+01	2,35E+01
WDP	m3 depriv.	4,27E-01	4,27E-01	6,56E-01
PERE	MJ	1,80E+00	1,80E+00	2,10E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,80E+00	1,80E+00	2,10E+00
PENRE	MJ	2,26E+01	2,26E+01	2,52E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,26E+01	2,26E+01	2,52E+01
SM	kg	3,54E--02	3,54E--02	3,54E--02
RSF	MJ	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00
FW - fresh water	m3	1,24E-02	1,24E-02	1,79E-02

ABBREVIATIONS

All abbreviations used in the EPD must be added. Please add all the abbreviations used.

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
ND	Not Declared

REFERENCES

a) General Programme Instructions of the International EPD® System, Version 5.0.1, 2024.
b) EN 15804:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.
c) PCR 2019:14, Construction products, Version 2.0.1, The International EPD® System.
d) ISO 14040:2006, Environmental management – Life cycle assessment – Principles and framework.
e) ISO 14044:2006, Environmental management – Life cycle assessment – Requirements and guidelines.
f) ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.
g) Central Product Classification (CPC) Version 2.1, United Nations Statistics Division, New York, 2015.
i) Database: Ecoinvent v3.11,The Ecoinvent Centre, Zurich, 2024.
j) LCA Study: Life Cycle Assessment ”Sanded Decorative Coating / Paint Products – Valpaint” developed in 2025 according to ISO 14040–14044 and EN 15804:2021

VERSION HISTORY

Original Version of the EPD, 2025-xx-xx

EPD
INTERNATIONAL EPD SYSTEM
www.environdec.com

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Water-based Enamel paints

From
Valpaint S.p.a.

- V55 MATT WHITE
- V88 SATINE WHITE
- V55 MATT NEUTRAL
- V88 SATINE NEUTRAL

This is an EPD of a multiple-products series, based on a representative product from Valpaint S.r.l.

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of multiple products from a company
EPD registration number:	EPD-IES-0026928:001
Version date:	2025-12-17
Validity date:	2030-11-19 *An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see 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:	support@environdec.com
PCR Review was conducted by the Technical Commitee of the international EPD System. Chairs of the PCR Review, Rob Rouwette (Chair) and Noa Meron (Co-chair).	

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): *PCR 2019:14 construction products (EN 15804:A2) version 2.0.1* + CEN standard EN 15804 + A2
PCR Review was conducted by the Technical Commitee of the international EPD System. Chairs of the PCR Review, Rob Rouwette (Chair) and Noa Meron (Co-chair).

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ **Individual EPD verification without a pre-verified LCA/EPD tool** Third Part Verifer: Bureau Veritas Italia S.p.A., Viale Monza, 347, 20126 Milano (MI) Accredited by: ACCREDIA - Accreditation certification N. 00031VV
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

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

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.
For further information about comparability, see EN 15804 and ISO 14025

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Valpaint S.p.A.
Address: Via dell'Industria, 80, 60020 Polverigi (Ancona – Italy)
Contact: Mirco Cesaretti - VALPAINT S.p.A. mirco.cesaretti@valpaint.it
Address and contact information of the LCA practitioner commissioned by the EPD owner:
Dr. Alessandra Cecchini - Manifaktura S.r.l. – Str. della Campanara 3/1 - 61122 Pesaro Italy.
Description of the organisation:
VALPAINT was officially established in 1988 and became a joint-stock company (S.p.A.) in 2004. Its origins date back to 1974 when Ferdinando Sarti, still the company's President, started a small business in the paint sector.
VALPAINT TUNISIE is the production subsidiary located in Zaghouan, 70 km from Tunis, where the same decorative paints have been produced for the North African markets with the same technical specifications and the same quality level since 2001.
The VALPAINT brand is operates in many countries in Europe and around the world, either with its own subsidiaries or companies belonging to the Group:
VALPAINT ESPAÑA S.L. - Burgos (Spain)
VALPAINT DESIGN D.O.O.:

- Sarajevo (Bosnia Herzegovina)
- Podgorica (Montenegro)
- Zagreb (Croatia)

70% of turnover abroad; exports to over 60 countries; over 800 dealers and distributors/importers in Italy and worldwide.
VALPAINT is considered one of the most technologically advanced industries thanks to the dynamic activity of its Research and Development Laboratory.
The product development process takes advantage of the most advanced scientific methods to offer consumers the very best in QUALITY and PERFORMANCE.
At VALPAINT, R&D activities are driven by a desire for continuous improvement.
In 2006 we obtained the ISO 9001 Quality certification, which was followed by the ISO 14001 environmental certification for our environmentally friendly production processes in 2009.
But there is more:

- With VALPAINT's industrial water purifier the waste of water resources is reduced and only purification sludge is disposed of in landfills. Purified water is used in our washing plant, significantly reducing the amount of water taken from the water mains;
- since 2019 we have increased the energy efficiency of our plant with the installation of a photovoltaic system.
- VALPAINT cans are Plastic Second Life certified, as at least 40% of the plastic used is recycled, traced, and complies with the quality requirements established by the Italian Institute of Plastics (IIP).
- VALPAINT catalogs and product labels are made from FSC paper. FSC paper is certified by the Forest Stewardship Council, an international non-governmental organization that promotes responsible forest management worldwide. The FSC certification guarantees that the paper is produced from sustainably managed forests, respecting the environment, local communities, and workers' rights;
- the inks used by our suppliers for printing VALPAINT catalogs are plant-based to ensure a more sustainable future.

VALPAINT has embarked on an innovative and sustainable initiative by collaborating with a startup focused on protecting bees through the use of technology. The goal of the project is to promote environmental sustainability and raise public awareness about the importance of bees for the ecosystem. The project is part of VALPAINT's broader commitment to sustainable and environmentally friendly business practices.

VALPAINT produces a wide range of decorative paints that respect the environment and human health, both in the liquid phase (chemical analyses performed on paints in liquid state) and in terms of indoor emissions.
The vast majority of VALPAINT products:

- are certified in class A+ according to French Decree No. 2011-321
- are awarded the Japanese Four Star certification for formaldehyde emissions measured according to the strict JJS A 1902-3 standard.
- have a low VOC (volatile organic compounds) contents
- comply with the strict German AgBB/ABG and Blue Angel standards, as only raw materials that allow this result to be achieved are selected during the development phase.
- do not contain polycyclic aromatic hydrocarbons (PAHs), alkylphenol ethoxylates (APEOs), ammonia, formaldehyde, or heavy metals to ensure maximum safety for users and the environment.
- are not classified as toxic according to Regulation (EC) 1272/2008 (CLP).

Renewable raw materials come from plants rather than fossil sources, and recycled raw materials help to close the life cycle of a substance: the waste product of a specific sector becomes the raw material for another activity.

The company is a model of excellence in the decorative paint sector, demonstrating how innovation and sustainability can go hand in hand. Our goal is to become completely sustainable; to this end, we invest in innovative technologies and collaborate with suppliers committed to reducing their environmental impact.

With its green products and constant commitment to sustainable production practices, VALPAINT offers high-quality decorative solutions, while contributing to protecting the planet.

<u>Product-related or management system-related certifications:</u>

- ISO 9001
- ISO 140001

PRODUCT INFORMATION

Product name: ***Flake-Based Decorative Coating / Paint***

Product identification :

The EPD hereby refers to a range of water based Flake-Based Decorative Coating paints for interiors with different visual effects (antique, pearlescent, antique metallic, cement).

The complete list and the description is show in the table below:

Product	Size	Density	yield (m²/lt)
V55 MATT WHITE (representative product).	• 1 L	1.390 ± 30 gr/l	9-11
V88 SATINE WHITE	• 4 L	1.350 ± 30 gr/l	10-12
V55 MATT NEUTRAL	• 10 L	1.400 ± 30 gr/l	9-11
V88 SATINE NEUTRAL		1.290 ± 30 gr/l	10-12

UN CPC code:

35110 Paints and varnishes and related products

V55 MATT WHITE (representative product):

V55 is decorative water-repellent and anti-bacterial water-based enamel for interiors (yield 9-11 m²/lt). The chemical composition adds to traditional mould-prevention properties for walls, the bacteria proliferation inhibition due to silver ions to guarantee the sanification of the indoor environment.

The product had also obtained HACCP certification according to the UNI 11021: 2002 standard (applicable on environment where food is treated) and is also suitable in environments with humidity higher than 80%.

The product has the highest sales, therefore is considered representative for all hydro-emated painting / coating.

V88 SATINE' WHITE:

The product maintains the same antibacterial characteristics of V55 but giving a brighter satinated visual effect and lower thickness (yield 10-12 m²/lt).

V88 SATINE' also is certified according to UNI 11021: 2002 standard suitable in environments with humidity higher than 80%.

V55 MATT NEUTRAL:
V55 MATT chromatic variant without titanium dioxide

V88 SATINE' NEUTRAL:
V55 SATINE' chromatic variant without titanium dioxide
.

UN CPC code:
35110 Paints and varnishes and related products

Name and location of production site(s):
VALPAINT S.p.A. - Via dell'industria, 80 - 60020 Polverigi (AN) - ITALY

Producer website: https://www.valpaint.it/

CONTENT DECLARATION

Mass (weight) of one unit of a product, as purchased or per declared unit:

1 kg of Water-based enamel paints (V55 MATT White), manufactured by Valpaint S.p.A.

Content of the product (see Table below):

Product content	Mass [Kg]	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Water	0.367	0	0	0
Dispersions and resins	0.215	0	0	0
Fillers	0.150	0	0	0
Pigments	0.200	0	0	0
Solvents	0.030	0	0	0
Salts and simple substances	0.002	0	0	0
Additives	0.036	0	0	0
TOTALE	**1.000**	0	0	0

The 4.0-liter bucket is the company's best-selling packaging format and is therefore used as the reference unit in this EPD.

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Corrugated board	0.0112	1.123	0.0056
Packaging film	0.0024	0.243	0.0000
Recycled plastic paint bucket	0.0600	6.000	0.0000
EUR-flat pallet	0.0238	2.380	0.0119
TOTAL	**0.0975**	9.746%	**0.0175**

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO_2.

Other information on substances with hazardous and toxic properties:

Preservatives (CIT/MIT, BIT) are present in concentrations below 0.1% w/w, in compliance with EU biocidal products regulation. No other hazardous substances are present in significant concentrations.

Declared unit : 1 kg of *Water-Based Enamel Paint V55 Matt White* manufactured by Valpaint
This EPD covers multiple products with results based on a representative product from the Valpaint family of *Water-Based Enamel Paint*
Product Representativeness:
The representative product is *V55 Matt White* which is the one with the highest production volume compared to product line.
Conversion factor to mass if mass is not used as functional/declared unit: 1 Kg = 0.72 L = 6,47 m^2
Reference service life: RSL is not relevant for this EPD
Time representativeness: Primary, site-specific data were collected at VALPAINT's manufacturing site and cover the period 01/01/2024–31/12/2024.
Geographical scope: The geographical scope of this EPD is Global
Database(s) and LCA software used: The Life Cycle Assessment was modelled in SimaPro (v10.2.0.3 Analyst). Background data were sourced from Ecoinvent (v311) for environmental performance indicators:15804 + A2 based on EF 3.1 characterisation factor
Description of system boundaries:
Cradle-to-gate (A1-A3)
Declared modules:

- A1 Raw material supply: extraction, production and supply of raw materials, including upstream processes and precursors used in the formulation of Artecò 7.
- A2 Transport: average transport of raw materials to the Valpaint production plant, modelled with weighted average distances and vehicle classes based on supplier data.
- A3 Manufacturing: mixing and dispersion of raw materials, use of auxiliaries (additives, dispersants, thickeners, preservatives), electricity and process water, packaging operations, on-site emissions to air and water, and waste management. Quality control operations are included.

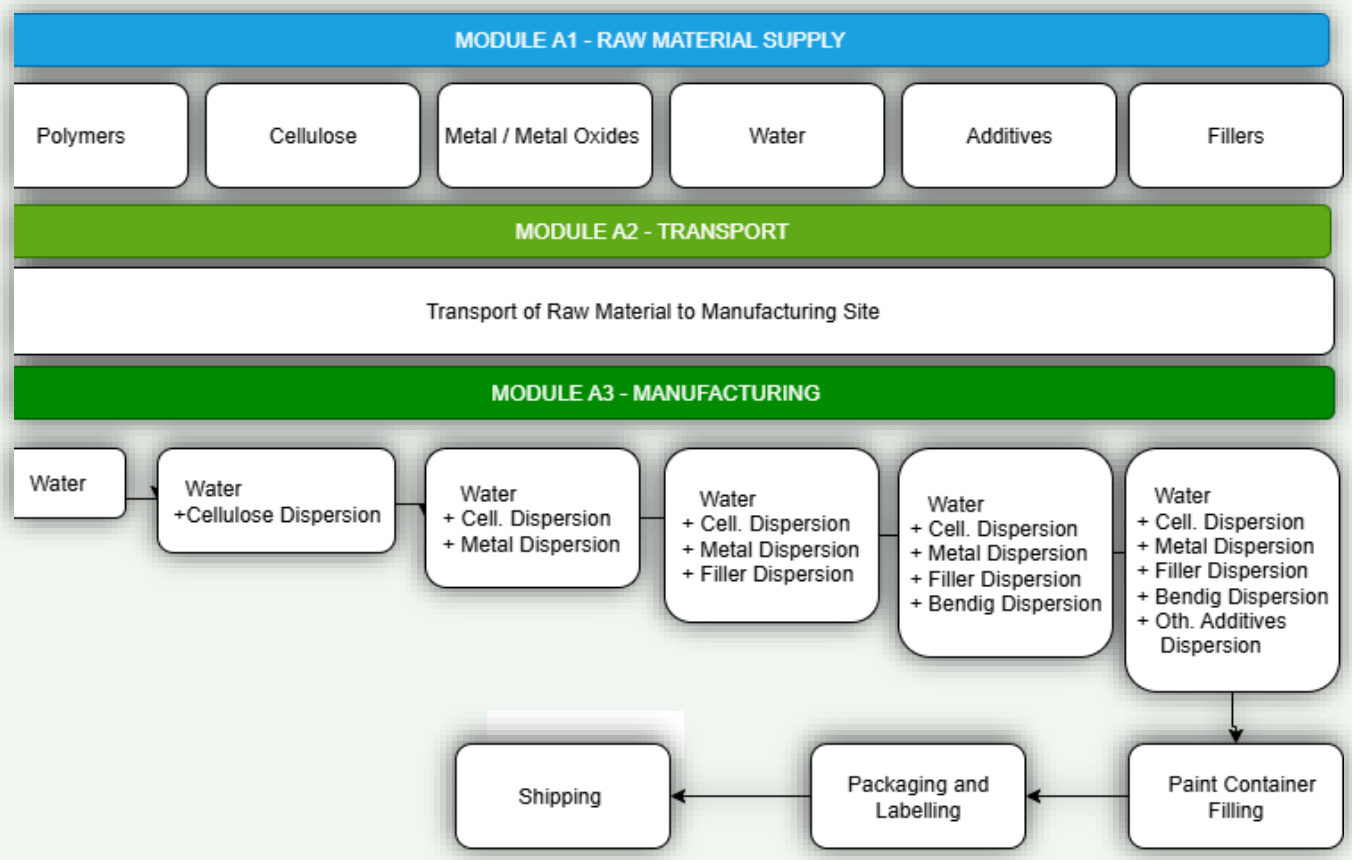
As permitted by PCR 2019:14 Construction products, version 2.0.1, the remaining life cycle stages (modules A4–A5, B1–B7, C1–C4, and D) have been excluded from the study, as the analyzed products meet the following conditions:

- The product or material is physically integrated with other products during installation and therefore cannot be physically separated from them at the end of life;
- The product or material is no longer identifiable at the end of life due to a physical or chemical transformation process;
- The product or material does not contain biogenic carbon;
- The EPD is not intended for business-to-consumer communication.

* Electricity mix: The electricity used in the production process (phase A1-A3) was modelled using the national Residual Mix provided by the AIB (Association of Issuing Bodies) for a share of 94.5%, and by the photovoltaic system for 5.5%. The GWP-GHG of the electricity mix is equal to: **0.61** kg CO2eq./kWh

Cut-off: coverage ≥99% of mass and energy;

Process flow diagram:



	Product stage			Distribution/ installation stage		Use stage							End-of-life stage					Beyond product life cycle
	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X		X
Geography	EU	EU	IT	-	-	-	-	-	-	-	-	-	-	-	-	-		-
Share of primary data	18.35%			-	-	-	-	-	-	-	-	-	-	-	-	-		-
Variation – products	- 26,5% + 3,9%			-	-	-	-	-	-	-	-	-	-	-	-	-		-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-		-

Data source and representativeness:

A summary of the data quality assessment, in line with requirements of PCR in Section 4.6.4. is listed below. The share of primary data is calculated based on GWP-GHG results.
The EPD covers the *Water-Based Enamel Paint* from Valpaint factory in Polverigi Marche, Italy, which provided data for the period 2024-01-01 to 2024-12-31. The product is manufactured through a complete paint manufacturing process, including mixing and packaging.
Background data was sourced from the Ecoinvent 3.11. The data quality assessment is based on EN15804 Annex E Table E-1. In general, time representation of the dataset's selection is very good for the studied product, the technical representation is good, the geographical representation is good.
No poor or very poor data was found during the assessment of relevant data.

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Generation of electricity used in manufacturing of product	Collected data Database	Valpaint Ecoinvent v3.11	2024	PrimaryData	2.85 %
transport of raw materials to plant	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	14.14%
Packaging (LDPE, cardboard, pallet, film)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Primary data	1.36%
Raw materials (binders, fillers, TiO_2, additives)	Collected data Database	Valpaint Ecoinvent v3.11	2024	Secondary data	0%
Total share of primary data, of GWP-GHG results for A1-A3					18,35%

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804 (Representative Product)

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
GWP-total	kg CO2 eq	2,35E+00
GWP-biogenic	kg CO2 eq	1,29E-02
GWP-fossil	kg CO2 eq	2,33E+00
GWP-luluc	kg CO2 eq	1,76E-03
ODP	kg CFC11 eq	4,41E-08
AP	mol H+ eq	3,35E-02
EP-freshwater	kg P eq	6,96E-04
EP-marine	kg N eq	2,17E-03
EP-terrestrial	mol N eq	2,02E-02
POCP	kg NMVOC eq	1,01E-02
ADPE	kg Sb eq	1,53E-05
ADPF	MJ	3,41E+01
WDP	m3 depriv.	1,94E+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	

** Disclaimer: 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.*

The estimated impact results are only relative statements. which do not indicate the endpoints of the impact categories. exceeding threshold values. safety margins and/or risks. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

Additional mandatory and voluntary impact category indicators

Indicator	Unit	A1-A3
GWP-GHG[1]	kg CO_2 eq.	2.34E+00

Resource use indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
PERE	MJ	3,29E+00
PERM	MJ	0,00E+00
PERT	MJ	3,29E+00
PENRE	MJ	3,65E+01
PENRM	MJ	0,00E+00
PENRT	MJ	3,65E+01
SM	kg	1,80E-02
RSF	MJ	0,00E+00
NRSF	MJ	0,00E+00
FW- fresh water	m3	5,09E-02
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 re-sources; 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 indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Hazardous waste disposed	kg	2,59E-04
Non-hazardous waste disposed	kg	1,06E+00
Radioactive waste disposed	kg	5,06E-05

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

Output flow indicators

Results for 1 Kg of declared unit		
Indicator	**Unit**	**A1-A3**
Components for re-use	kg	0.00E+00
Material for recycling	kg	1.32E-02
Materials for energy recovery	kg	0.00E+00
Exported energy, electricity	MJ	0.00E+00
Exported energy, thermal	MJ	0.00E+00

Additional LCA results (other environmental performance results of the products

Variations information from the representative product:

LCA result of one declared unit product (A1-A3)	Unit	Min (V88 Satinè neutro)	Representative/ Average	Max(V88 Satinè bianco)
GWP-GHG	kg CO2 eq	1.72E+00	2.34E+00	2,43E+00
GWP-total	kg CO2 eq	1,68E+00	2,35E+00	2,40E+00
GWP-biogenic	kg CO2 eq	0,00E+00	1,29E-02	0,00E+00
GWP-fossil	kg CO2 eq	1,71E+00	2,33E+00	2,43E+00
GWP-luluc	kg CO2 eq	1,42E-03	1,76E-03	1,84E-03
ODP	kg CFC11 eq	3,57E-08	4,41E-08	4,93E-08
AP	mol H+ eq	1,56E-02	3,35E-02	3,36E-02
EP-freshwater	kg P eq	4,82E-04	6,96E-04	7,30E-04
EP-marine	kg N eq	1,42E-03	2,17E-03	2,24E-03
EP-terrestrial	mol N eq	1,40E-02	2,02E-02	2,10E-02
POCP	kg NMVOC eq	7,09E-03	1,01E-02	1,06E-02
ADPE	kg Sb eq	1,47E-05	1,53E-05	1,68E-05
ADPF	MJ	2,81E+01	3,41E+01	3,62E+01
WDP	m3 depriv.	1,08E+00	1,94E+00	2,01E+00
PERE	MJ	2,47E+00	3,29E+00	3,37E+00
PERM	MJ	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,47E+00	3,29E+00	3,37E+00
PENRE	MJ	3,00E+01	3,65E+01	3,87E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	3,00E+01	3,65E+01	3,87E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00
FW - fresh water	m3	2,93E-02	5,09E-02	5,26E-02

ABBREVIATIONS

All abbreviations used in the EPD must be added. Please add all the abbreviations used.

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
ND	Not Declared

REFERENCES

a) General Programme Instructions of the International EPD® System, Version 5.0.1, 2024.
b) EN 15804:2021, Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.
c) PCR 2019:14, Construction products, Version 2.0.1, The International EPD® System.
d) ISO 14040:2006, Environmental management – Life cycle assessment – Principles and framework.
e) ISO 14044:2006, Environmental management – Life cycle assessment – Requirements and guidelines.
f) ISO 14025:2006, Environmental labels and declarations – Type III environmental declarations – Principles and procedures.
g) Central Product Classification (CPC) Version 2.1, United Nations Statistics Division, New York, 2015.
i) Database: Ecoinvent v3.11,The Ecoinvent Centre, Zurich, 2024.
j) LCA Study: Life Cycle Assessment ”Water-Based Enamel Paint Products – Valpaint” developed in 2025 according to ISO 14040–14044 and EN 15804:2021

VERSION HISTORY

Original Version of the EPD, 2025-xx-xx

EPD
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