

ENVIRONMENTAL PRODUCT DECLARATION

as per *ISO 14025* and *EN 15804+A2*

Owner of the Declaration	IGP Pulvertechnik AG
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-IGP-20260317-CBC1-EN
Issue date	12.06.2026
Valid to	11.06.2031

Coating Powder Series IGP-RAPID®complete 88
IGP Pulvertechnik AG

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General Information

IGP Pulvertechnik AG

Programme holder

IBU – Institut Bauen und Umwelt e.V.
 Hegelplatz 1
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 Germany

Declaration number

EPD-IGP-20260317-CBC1-EN

This declaration is based on the product category rules:

Coatings with organic binders, 01.08.2021
 (PCR checked and approved by the SVR)

Issue date

12.06.2026

Valid to

11.06.2031



Dipl.-Ing. Hans Peters
 (Chairman of Institut Bauen und Umwelt e.V.)



Dr. Martina Bender
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Coating Powder Series IGP-RAPID®complete 88

Owner of the declaration

IGP Pulvertechnik AG
 Ringstrasse 30
 9500 Wil
 Switzerland

Declared product / declared unit

Coating powder **IGP-RAPID®complete Series 88** is a low-temperature coating system designed for high-quality surface finishing of heat-sensitive substrates such as wood and composite materials in interior environments.

Declared unit 1 kg.

Scope:

This environmental product declaration refers to a representative formula of an organic, thermosetting coating powder of series **IGP-RAPID®complete 88** from the manufacturer IGP Pulvertechnik AG.

The declaration covers the reproducible color range of solid shades and clearcoats within the low-temperature powder coating series **IGP-RAPID®complete 88** for heat-sensitive substrates, including product groups 881T, 8862, 8863, and 8864, and represents an average of the selected representative articles.

The declared products originate from the development and production location in Wil, Switzerland.

The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR	
Independent verification of the declaration and data according to ISO 14025:2011	
☐	internally
☒	externally



Florian Gehring,
 (Independent verifier)

Product

Product description/Product definition

IGP-RAPID[®]complete 88 series powder coatings are based on a highly reactive, low-temperature system designed for eco-friendly finishing of heat-sensitive substrates, including fiberboards, wood composites, and natural wood. With curing temperatures beginning at just 125 °C, the system enables an energy-efficient, cost-saving process with a reduced carbon footprint. **IGP-RAPID[®]complete 88** provides outstanding chemical and mechanical resistance. The resulting surfaces deliver long-lasting protection against mechanical impact and moisture, while remaining easy to clean and resistant to light exposure.

The series includes the following surface characteristics:

IGP-RAPID[®]complete 881T fine textured, deep matte
IGP-RAPID[®]complete 8862 natural smooth, matte (clearcoat)
IGP-RAPID[®]complete 8863 natural smooth, matte
IGP-RAPID[®]complete 8864 natural smooth, silk matte (clearcoat)

For the use and application of the product the respective national provisions at the place of use apply, in Germany for example the building codes of the federal states and the corresponding national specifications.

Application

IGP-RAPID[®]complete 88 powder coatings provide single- or dual-layer finishes for fiberboards, wood composites, and wood used in interior environments.

Technical Data

When applied with the recommended coating thickness, the powder coating films of **IGP-RAPID[®]complete 88** have the following technical properties (tested on EGGER MBP-L 25mm with 110 µm - 130 µm):

Powder and film properties

Name	Value	Unit
Density Solid Shades (881T, 8863) EN ISO 8130-2	1.3 - 1.6	kg/l
Density Clearcoats (8862, 8864) EN ISO 8130-2	1.2 - 1.4	kg/l
Solid Substance Content EN ISO 3251	>99	%
Curing Time	from 5	min
Curing Temperature	from 125	°C
Hinge Hole Test IGP AA341.42	≤ 1.1 Level	
Acetone Test* IGP AA341.44	10N Level 2	
Behavior at chemical influence* DIN 68861-1	C	
Behavior at abrasion* DIN 68861-2	B	
Behavior subjection to dry heat* DIN 68861-7	C	
Behavior at scratches* DIN 68861-4	B	

*Only applicable for product group 881T

Base materials/Ancillary materials

The declaration refers to the following composition of coating products from the **IGP-RAPID[®]complete 88** series:

Name	Value	Unit
Binders (resins and hardeners)	64.0-88.0	%
Pigments (inorganic, metal oxides)	0.0-1.7	%
Pigments (inorganic, others)	0.0-0.3	%
Pigments (special)	0.0-30.0	%
Extender	3.3-30.0	%
Additives	0.7-2.0	%

The weighted average composition of the selected coating products from the **IGP-RAPID[®]complete 88** series for this declaration refers to binders (69.12 %), pigments - inorganic metal oxides (0.12 %), pigments - inorganic others (0.03 %), pigments - special (20.26 %), extender (8.59 %), additives (1.87 %).

All articles of series 88 comply with *REACH Regulation (EG) No. 1907/2006*.

Substances of very high concern (SVHC) as per the current *ECHA* Candidate List and substances listed in Annex XIV of *REACH Regulation (EG) No. 1907/2006* are not contained above the legally defined threshold value of 0,1%. Articles of series **IGP-RAPID[®]complete 88** also comply with *Directive (EU) 2015/863 (RoHS 3)*.

Reference service life

When processed in full compliance with the manufacturer's specifications, including the prescribed cleaning procedures and any defined limitations on the permissible area of application, the durability of powder-coated surfaces corresponds to the intended service life of the coated components.

LCA: Calculation rules

Declared Unit

The declared unit is 1 kg.

Details of the declared unit

Name	Value	Unit
Gross density (mean value)	1550	kg/m ³
Declared unit	1	kg

The EPD declares an average composition for all analyzed products.

The weighted average composition of the declared product is calculated in relation to the production volume shares of a total of 6 variants, manufactured at the IGP production locations in Wil, Switzerland.

The production process is identical for all products of all the analyzed variants.
With regard to the variability of the LCA results, slight fluctuations can occur due to different product compositions. A single-score evaluation based on *EN15804+A2* (EF 3.1) normalization is conducted on all 6 products (Module A1-A3) to assess the range in variation of their corresponding environmental impacts relative to the weighted average. The range varies between +3 % and –12 % relative to the declared weighted average results. The LCA values are estimated to be robust.

System boundary

Type of EPD:
Cradle to plant gate with modules C1-C4 and module D (A1-A3, C, D). The life cycle assessment covers:
A1-A3

- Modules A1, A3: Raw material provision and powder coating manufacturing processes (Electricity: 0.67 kg CO₂e/kWh; Thermal Energy: 0.26 kg CO₂e/kWh), including the packaging. The biogenic CO₂ emissions from the packaging material are declared in A1-A3 and the stored carbon is taken into account as 'CO₂-neutral'.

- Module A2: Transport to the production facility (Wil, Switzerland).

C1- C4, D

- Module C1: Manual dismantling (no environmental loads).
- Module C2: An average transport distance of 200 km by truck is assumed.
- Module C3: No Incineration considered in End-of-life scenario. Therefore it is set to 0.
- Module C4: As a disposal scenario, it is assumed that the coating powder, which is located on a wood surface during disposal is thermally disposed of during the treatment of wood (incineration)
- Module D: No benefits are generated from module C4, it is set to 0.

Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Europe

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. Background database: *Sphera LCA FE (GaBi ts) software, CUP 2025.2*.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

The calculation of the biogenic carbon content is based on the assumption that the absolutely dry wood and cardboard mass consists of 50 % biogenic carbon.
None of the analyzed products contain biogenic carbon, only the packaging material.
The uptake and release of biogenic CO₂ emissions from the packaging material are declared in A1-A3. The stored carbon is therefore taken into account in A1-A3 as 'CO₂-neutral'.

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.035	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO₂.

Installation into Building (A5)

The end-of-life stage of the product packaging is not declared in Module A5, but is instead presented as technical scenario information.

Name	Value	Unit
Carton	4,08E-02	kg
Polyethylene Foil	5,72E-03	kg
Wooden pallets	4,17E-02	kg

End of life/ Disposal Scenario (C4)

Name	Value	Unit
For thermal utilization without energy recovery	1	kg

LCA: Results

The following tables show the results according to EN 15804+A2 (EF3.1).

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 kg IGP-RAPID@complete 88

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Global Warming Potential total (GWP-total)	kg CO ₂ eq	4.53E+00	0	2.04E-02	0	2.53E+00	0
Global Warming Potential fossil fuels (GWP-fossil)	kg CO ₂ eq	4.49E+00	0	2.02E-02	0	2.53E+00	0
Global Warming Potential biogenic (GWP-biogenic)	kg CO ₂ eq	3.6E-02	0	3.78E-05	0	0	0
Global Warming Potential luluc (GWP-luluc)	kg CO ₂ eq	2.88E-03	0	2.13E-04	0	2.4E-04	0
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC11 eq	1.61E-11	0	3.43E-15	0	9.08E-13	0
Acidification potential of land and water (AP)	mol H ⁺ eq	7.37E-03	0	8.26E-05	0	4.39E-04	0
Eutrophication potential aquatic freshwater (EP-freshwater)	kg P eq	9.93E-06	0	5.57E-08	0	1.2E-07	0
Eutrophication potential aquatic marine (EP-marine)	kg N eq	2.23E-03	0	3.92E-05	0	9.84E-05	0
Eutrophication potential terrestrial (EP-terrestrial)	mol N eq	2.48E-02	0	4.25E-04	0	2.03E-03	0
Formation potential of tropospheric ozone photochemical oxidants (POCP)	kg NMVOC eq	9.05E-03	0	7.5E-05	0	2.7E-04	0
Abiotic depletion potential for non fossil resources (ADPE)	kg Sb eq	2.1E-05	0	1.37E-09	0	8.8E-09	0
Abiotic depletion potential for fossil resources (ADPF)	MJ	7.7E+01	0	2.65E-01	0	1.29E+00	0
Water use (WDP)	m ³ world eq deprived	6.92E-01	0	9.44E-05	0	2.36E-01	0

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 kg IGP-RAPID@complete 88

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Renewable primary energy as energy carrier (PERE)	MJ	2.58E+01	0	1.99E-02	0	4.11E-01	0
Renewable primary energy resources as material utilization (PERM)	MJ	1.37E+00	0	0	0	0	0
Total use of renewable primary energy resources (PERT)	MJ	2.71E+01	0	1.99E-02	0	4.11E-01	0
Non renewable primary energy as energy carrier (PENRE)	MJ	5.57E+01	0	2.65E-01	0	2.23E+01	0
Non renewable primary energy as material utilization (PENRM)	MJ	2.13E+01	0	0	0	-2.1E+01	0
Total use of non renewable primary energy resources (PENRT)	MJ	7.7E+01	0	2.65E-01	0	1.29E+00	0
Use of secondary material (SM)	kg	3.78E-02	0	0	0	0	0
Use of renewable secondary fuels (RSF)	MJ	0	0	0	0	0	0
Use of non renewable secondary fuels (NRSF)	MJ	0	0	0	0	0	0
Use of net fresh water (FW)	m ³	2.55E-02	0	9.86E-06	0	5.66E-03	0

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 kg IGP-RAPID@complete 88

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed (HWD)	kg	2.38E-08	0	1.06E-11	0	8.75E-10	0
Non hazardous waste disposed (NHWD)	kg	1.52E+00	0	3.69E-05	0	2.52E-01	0
Radioactive waste disposed (RWD)	kg	1.21E-03	0	4.99E-07	0	4.04E-05	0
Components for re-use (CRU)	kg	0	0	0	0	0	0
Materials for recycling (MFR)	kg	0	0	0	0	0	0
Materials for energy recovery (MER)	kg	0	0	0	0	0	0
Exported electrical energy (EEE)	MJ	0	0	0	0	0	0
Exported thermal energy (EET)	MJ	0	0	0	0	0	0

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 kg IGP-RAPID@complete 88

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Incidence of disease due to PM emissions (PM)	Disease incidence	8.77E-08	0	5.62E-10	0	5.01E-09	0
Human exposure efficiency relative to U235 (IR)	kBq U235 eq	1.67E-01	0	7.17E-05	0	4.05E-03	0
Comparative toxic unit for ecosystems (ETP-fw)	CTUe	5.37E+01	0	3.44E-01	0	4.98E-01	0

Comparative toxic unit for humans (carcinogenic) (HTP-c)	CTUh	8.76E-10	0	4.64E-12	0	3.8E-11	0
Comparative toxic unit for humans (noncarcinogenic) (HTP-nc)	CTUh	2.65E-08	0	2.59E-10	0	2.92E-09	0
Soil quality index (SQP)	SQP	1.73E+01	0	1.17E-01	0	3.65E-01	0

Disclaimer 1 - for the indicator "Potential human exposure efficiency relative to U235."

This impact category deals mainly with the possible impact of low-dose ionizing radiation on human health in the nuclear fuel cycle. It does not give consideration to effects due to possible nuclear accidents, occupational exposure, or radioactive waste disposal in underground facilities. Nor is potential ionizing radiation from the soil, radon, or from certain construction materials measured by this indicator.

Disclaimer 2 -for the indicators "Abiotic depletion potential for non-fossil resources," "Abiotic depletion potential for fossil resources," "Water (user) deprivation potential," "Potential comparative toxic unit for ecosystems," "Potential comparative toxic unit for humans - carcinogenic," "Potential comparative toxic unit for humans - non-carcinogenic," "Potential soil quality index." The results of this environmental impact indicator must be used with care, as the uncertainties surrounding these results are high because only limited experience with the indicator is available.

References

Standards

DIN 68861-1

DIN 68861-1:2011-01, Furniture surfaces - Part 1: Behaviour at chemical influence

DIN 68861-2

DIN 68861-2:2020-07, Furniture surfaces - Part 2: Behavior at abrasion

DIN 68861-4

DIN 68861-4:2013-02, Furniture surfaces - Part 4: Behaviour at scratches

DIN 68861-7

DIN 68861-7:2001-04, Furniture surfaces - Part 7: Behaviour subjection to dry heat

DIN EN 15804

German version EN 15804:2012+A2:2019 + AC:2021, Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products

ISO 3251

German and English version ISO 3251:2019, Paints, varnishes and plastics - Determination of non-volatile-matter content.

ISO 8130-2

ISO 8130-2:2021, Coating powders - Part 2: Determination of density by gas comparison pycnometer (referee method)

ISO 14001

German and English version EN ISO 14001:2015, Environmental management systems - Requirements with guidance to use

ISO 14025

German and English version EN ISO 14025:2011, Environmental labels and declarations -Type III environmental declarations -Principles and procedures

ISO 14680-2

German version EN ISO 14680-2:2006, Paints and varnishes - Determination of pigment content - Part 2: Ashing method

Further references

BBSR

Federal Institute for Research on Building, Urban Affairs and Spatial Development.
www.bbsr.bund.de

IBU 2022

Institut Bauen und Umwelt e.V.: General Program Instructions for the Preparation of EPDs of Institut Bauen und Umwelt e.V. (IBU). Version 2.1, Berlin: Institut Bauen und Umwelt e.V., 2022.
www.ibu-epd.com

IGP AA341.42

IGP internal working instruction for the simulation of swelling and expansion behavior for determining the flexibility of powder coating layers on MDF in accordance with IOS TM 022 and VDI 2015.

IGP AA341.44

IGP internal working instruction for testing the degree of cross-linking with acetone.

PCR Part A

PCR- Part A: Calculation Rules for the Life Cycle Assessment and Requirements for the Project Report, Berlin: Institut Bauen und Umwelt e.V., www.ibu-epd.com, Version 1.4 2024

PCR Part B

PCR -Part B: Requirements for the EPD for Coatings with Organic Binders, Institut Bauen und Umwelt e.V. (IBU), v11, 2024

REACH

Regulation (EG) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SZFF Guideline 61.01

SZFF-Guideline 61.01, edition 2021, guideline for the maintenance and cleaning of metal facades according to the Swiss Window and Facade Center SZFF.

Directive (EU) 2015/863 (RoHS 3)

based on Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances.

RoHS 2011/65/EU

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment supersedes Directive 2002/95/EC.

Sphera LCA FE (ehemals GaBi)

Sphera LCA For Experts (formerly GaBi software system) with the respective databases Managed LCA Content MLC (formerly GaBi databases), Sphera Solutions GmbH. CUP Version: 2025.2. University of Stuttgart, Leinfelden Echterdingen, MLC

data documentation at <https://sphaera.com/product/sustainability-gabi-data-search/> (March 2026).

Regulation (EU) 528/2012 (EU BPR)

The Biocidal Products Regulation (BPR, Regulation (EU)

528/2012) concerns the making available on the market and use of biocidal products which are used to protect humans, animals, materials, or articles against harmful organisms such as pests or bacteria.



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