ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	IGP Pulvertechnik AG
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-IGP-20220256-IAC1-EN
Issue date	27.09.2022
Valid to	26.09.2027

Coating Powder IGP-DURA®sky 9503 IGP Pulvertechnik AG



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General Information

IGP Pulvertechnik AG

Programme holder

IBU – Institut Bauen und Umwelt e.V. Hegelplatz 1 10117 Berlin Germany

Declaration number

EPD-IGP-20220256-IAC1-EN

This declaration is based on the product category rules:

Coatings with organic binders, 01.2019 (PCR checked and approved by the SVR)

Issue date

27.09.2022

Valid to 26.09.2027

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

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Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.))

Product

Product description/Product definition

The product groups of the 95 series belong to the ultrahigh weather resistant quality level and are based on fluoropolymers of the FEVE (Fluoroethylene Vinyl Ether) group, as well as saturated copolymer resins, corresponding Triglydicyl Isocyanurate (TGIC)-free hardeners and UV- light resistant pigments. The series includes the following surface finishes: IGP-DURA®sky 9503A smooth, matt, uni; IGP-DURA®sky 9503E smooth finish, matt with pearl effect.

The product groups are characterised by the highest chalking and colour stability.

Coating Powder is a product for which no legal provisions for harmonisation of the EU exist. For the use and application of the product, the respective national provisions at the place of use apply.

IGP-DURA®sky, 9503

Owner of the declaration

IGP Pulvertechnik AG Ringstrasse 30 9500 Wil, CH

Declared product / declared unit

Coating powder IGP-DURA[®]sky 9503 for the manufacturing of ultra-high weather-resistant powdercoating finishes, declared unit 1 kg

Scope:

This Environmental Product Declaration declares a representative formulation of an organic, thermosetting coating powder of the 95 series from the manufacturer IGP Pulvertechnik AG.

The declaration covers the reproducible colour range of the solid and pearl mica effect shades of the ultrahigh weather-resistant product group: IGP-DURA®sky 9503.

The declared products refer to the development and production site 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 x externally

Minke

Matthias Klingler (Independent verifier)

Application

IGP-DURA®sky 9503 is a matt ultra-high weather resistant coating for high gloss and colour stable, chalking-resistant surfaces for high-value object facades made of metal substrates, as well as for surfaces with good sliding properties and for high chemical stresses.

Good adhesion to the substrate requires the formation of a conversion layer, which also works well with approved chrome-free pretreatment chemicals.

Technical Data

The powder coating films of IGP-DURA®sky 9503 which were applied according to the technical data sheet at a recommended film thickness of approx. 60 μ m have the following technical properties:



Powder and film properties

Name	Value	Unit
Weathering quality according to	'QC KL. 3;	
Qualicoat, AAMA	AAMA 2605	-
Density EN ISO 8130-2	1,3-1,6	kg/l
Solids content EN ISO 14680-2	99	%
Theoretical yield at 50 μm, 80% application efficiency	9.9 - 12.4	sqm
Gloss product group 9503 EN ISO 2813	25-35	*R' 60°
Curing time	from 15'	min
Curing temperature	200	°C
Impact test indirect EN ISO 6272-2	≥ 2.5	Nm
Bending test EN ISO 1519	≤ 5	mm
Adhesion test EN ISO 2409	no delamin.	-
Salt spray test (AASS) EN ISO 9227, ISO 4628-2	2000 h max ≤ S2	h
Condensation test EN ISO 6270-2 CH, ISO 4628-2	2000 h max ≤ S2	h
Gloss stability acc. Qualicoat with short term weathering in Florida	3 Jahre ≥ 80%	**RG
Color stability acc. Qualicoat with short term weathering in Florida ISO 2810	3 years ≤ 50% acc. App. A12	ΔE (CIE)
Florida long-term exposure Gloss stability acc. QualicoatAAMA ISO 2810	10 years ≥ 50%	RG
Color stability acc. Qualicoat, CIELAB Color space ISO 11664-4; D65	acc. to***LV QC: App.A12	ΔE (CIE)
Color stability acc. AAMA 2605, Hunter Color space ASTM D2244; Sect. 6.3	acc. to LV AAMA 2605 5	ΔE (Lab)
Scratch resistance 32 moves, 200 gr CEN/TS 16611	≥ 50%	RG

*	R' - Reflectometer values with 60°	angle
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** RG- Residual gloss

***	LV-	Limit values	' QC- Qualicoat
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Product definition:

The coating powder is not subject to EU harmonisation legislation: the use of the product is subject to the respective national regulations at the place of use.

Base materials/Ancillary materials

The declaration refers to the following composition of the coating powder IGP-DURA®sky 9503:

LCA: Calculation rules

Declared Unit

The declared unit refers to 1 kg of 95er Fluoropolymer coating powder product.

Name	Value	Unit
Gross density (mean value)	1450	kg/m ³
Declared unit	1	kg

This EPD declares a representative composition for all products under study. This composition is representative because it considers a powder coating

formulation with the highest environmental impacts (within a 10% range).

Name	Value	Unit
Binder (resin and hardener)	67-80	%
Pigments (coloured/ effect pigments)	0- 5,3	%
Titanium dioxide	0- 24,5	%
Extender	2,7- 18,2	%
Additives	3,3-7,2	%

All articles of series 95 comply with the REACH Regulation (EC) No 1907/2006. Substances of very high concern (SVHC) according to the Candidate List, 17.01.2022, as well as substances of Annex XIV of REACH Regulation (EC) No. 1907/2006 are not included above the legal threshold of 0.1%. Articles of series 95 further comply with Directive (EU) 2015/863 (RoHS 3).

The product/article/at least one sub-article contains other carcinogenic, mutagenic, reprotoxic (CMR) substances of category 1A or 1B, which are not on the candidate list, above 0.1 % by mass in at least one sub-article: no

Biocidal products have been added to this construction product or it has been treated with biocidal products (it is thus a treated product in the sense of the Biocidal Products Regulation (EU) No. 528/2012): no

Reference service life

When surfaces coated with IGP-DURA®sky 95 are properly maintained, the service life of the surfaces corresponds to the service life of the building. Changes in colour and gloss due to weathering do not impair the protective effect. The ageing of the material is mainly caused by the effects of UV radiation and moisture. Both influences can lead to changes in gloss and colour within the permissible tolerance range of the GSB (Quality association for ensuring the coating quality of workpieces and the pre-treatment and coating materials used in the process by drawing up and monitoring quality guidelines) and Qualicoat quality associations. Delamination of the coating must not occur in this case. High concentrations of atmospheric agents such as industrial waste gases or chlorides - e.g. from de-icing salts - can lead to an irreversible impairment of the protective effect of the coating. The protective effect of the coating film can be irreversibly impaired in high concentrations, even to the point of infiltration and detachment.

System boundary

The type of EPD is cradle to gate with modules C1-C4, and module D (A1-A3, C, D). The life cycle assessment includes the provision of raw materials (module A1), transport to the production site (module A2) and the manufacturing processes of the powder coating and packaging material (module A3). The coating process is outside the scope of the study.

The CO_2 emissions from biogenic carbon in the packaging material are released within A1-A3.



At the end of its life, the product is transported to the disposal company (module C2) and then disposed of (module C4).

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 dataset : GaBi ts software, CUP 2021.2.

LCA: Scenarios and additional technical information

Characteristic product properties Information on 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. No biogenic carbon content exists in any of the products under study, only packaging materials.

The CO_2 emissions from biogenic carbon in the

packaging material are released within A1-A3.							
Name	Value	Unit					
Biogenic carbon content in	0.0363	kg C					
accompanying packaging	0.0000	Ng O					

The following information was used to calculate the declared modules:

End of life (C1-C4)

- Module C1: Manual dismantling (no environmental loads).

- Module C2: An average transport distance of 200 km is assumed by truck.

- Module C4: As a disposal scenario, it is assumed that the coating powder, which is located on an aluminium surface during disposal, is thermally disposed of during the recycling of the aluminium (melting/burning). No credits were awarded for combustion on the basis of energy substitution, but only the resulting emissions were taken into account.

Name	Value	Unit
For thermal utilisation without energy	1	ka
recovery	I	kg



LCA: Results

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

DECL	DECLARED; MNR = MODULE NOT RELEVANT)																
PROE	DUCT S	TAGE	CONST ON PRO STA	OCESS			US	SE STA	GE		1	ENI	D OF LI	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
Х	Х	Х	ND	ND	ND	ND I	MNR	MNR	MNR	ND	ND	X	Х	X	Х	x x	
RESL	JLTS	OF TH	IE LCA	- EN\	/IRON	MENTA		PACT	accor	ding t	o EN	15804+	A2: 1	kg Co	bating I	Pow	der IGP-
		<mark>/ 95</mark> 03							,								
		Core	Indicato	r		ι	Jnit	4	A1-A3	C1		C2	c	3	C4		D
	Glo	bal warm	ning poten	tial - total		[kq C	:O ₂ -Eq.]	9.	71E+0	0.00E	+0	1.75E-2	0.00)E+0	2.54E+0)	0.00E+0
			potential			[kg C	O ₂ -Eq.]	9.	62E+0	0.00E	+0	1.66E-2	0.00)E+0	2.54E+0		0.00E+0
—	Globa	l warmin	g potentia	I - biogen			O_2 -Eq.]		.06E-2 .62E-3	0.00E		7.80E-4)E+0	2.95E-4		0.00E+0
			se and lar he stratos				O ₂ -Eq.] C11-Ec		.62E-3 01E-13	0.00E		1.36E-4 2.12E-18	-)E+0)E+0	1.55E-4 1.35E-1		0.00E+0 0.00E+0
			, accumul				H ⁺ -Eq.]		42E-2	0.00E		5.69E-5)E+0	4.39E-4		0.00E+0
Eutrop	hication,		f nutrients ompartme		freshwate	× .	P-Eq.]		.84E-5	0.00E		4.93E-8	0.00)E+0	1.96E-7		0.00E+0
Eutroph	nication, f		fnutrients		marine er	nd Ika	N-Eq.]		.56E-3	0.00E		2.65E-5	0.00)E+0	9.88E-5		0.00E+0
-	Tutranhi		npartment				N-Eq.]		.98E-2			2.05E-5)E+0	2.03E-3		0.00E+0
			cumulate														
	on poton		xidants	020110 pr		[kg NM	VOC-E		.57E-2	0.00E		5.14E-5)E+0	2.75E-4		0.00E+0
			ntial for no				<u> </u>		.31E-4	0.00E+0		1.26E-9	0.00E+0		1.84E-8		0.00E+0
			tential for				MJ] Iorld Ea			0.00E+0		2.21E-1	0.00E+0		1.18E+0		0.00E+0
Water (user) deprivation potential, deprivation-weighted water consumption (WDP) [m³ worldeprivation-weighted]					prived]			0.00E	00E+0 1.44E-4		0.00E+0		2.60E-1		0.00E+0		
			IE LCA IGP-D				DES	CRIB	ERES	OURC	EUS	E accor	ding	to EN	15804-	+A2	: 1 kg
			Indic	ator				Unit	A1-A3		C1	C2		C3	C4		D
			primary en			rier I utilization		[MJ]	2.16E+ 1.31E+		00E+0 00E+0	1.23E-2 0.00E+0	-	00E+0 00E+0	3.32E- 0.00E+		0.00E+0 0.00E+0
			newable p					[MJ] [MJ]	2.29E+		00E+0	1.23E-2		00E+0	3.32E-		0.00E+0
			e primary					[MJ]	1.19E+		00E+0	2.21E-1			2.33E+		0.00E+0
			primary er					[MJ]	2.25E+		00E+0	0.00E+0			-2.22E		0.00E+0
	Total use	e of non-i	enewable	primary of	energy res			[MJ]	1.41E+		00E+0	2.21E-1		00E+0	1.18E+		0.00E+0
			e of secon					[kg]	0.00E+		00E+0	0.00E+0		00E+0	0.00E+		0.00E+0
			enewable					[MJ]	0.00E+ 0.00E+		00E+0 00E+0	0.00E+0		00E+0 00E+0	0.00E+	-	0.00E+0 0.00E+0
	(n-renewal					[MJ] [m³]	7.70E-2	2 0.0	00E+0	1.41E-5		00E+0	6.21E-		0.00E+0
												S accor					
1 kg (Coatir	ng Po	wder I	GP-DU	RA®s	ky 9503	3										
			Indic					Unit	A1-A3		C1	C2		C3	C4		D
			ardous wa				$-\Gamma$	[kg]	4.40E-8		00E+0	0.00E+0		00E+0	0.00E+		0.00E+0
			azardous					[kg]	2.07E- 2.60E-3		00E+0	1.11E-1		00E+0 00E+0	2.53E-		0.00E+0
			oactive w					[kg] [kg]	2.60E-		00E+0 00E+0	3.29E-5 2.68E-7	-	00E+0 00E+0	2.64E- 4.02E-		0.00E+0 0.00E+0
			laterials fo					[kg]	0.00E+		00E+0	0.00E+0 0.00E+0			0.00E+		0.00E+0
			rials for er					[kg]	0.00E+		00E+0	0.00E+0			0.00E+		0.00E+0
			orted elec					[MJ]	0.00E+	0 0.0	00E+0	0.00E+0) 0.	00E+0	0.00E+	-0	0.00E+0
		Ex	ported the	rmal ene	rgy			[MJ]	0.00E+	0 0.	00E+0	0.00E+0) 0.	00E+0	0.00E+	-0	0.00E+0
RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional: 1 kg Coating Powder IGP-DURA®sky 9503																	
			Indica					Unit	A1-A3		C1	C2		C3	C4		D
	Potential	incidenc	e of disea	se due to	PM emis	sions		sease	2.95E-7	7 0.0	00E+0	3.13E-1	0.	00E+0	5.62E-	.9	0.00E+0
F	Potential	Human e	exposure e	efficiency	relative to	U235	[kBc	dence] 1 U235-	3.10E-		00E+0	3.83E-5		00E+0	3.72E-		0.00E+0
	Potent	ial comn	arative to	(ic unit for	ecosvste	ns		Eq.] CTUe]	7.04E+		00E+0	1.60E-1		00E+0	4.29E-		0.00E+0
Pot			e toxic uni					TUh]	2.77E-9		00E+0	3.22E-12		00E+0	3.87E-		0.00E+0
		parative t	oxic unit f	or human	s - not car	cerogenic		TUh]	2.36E-	7 0.	00E+0	1.93E-1) 0.	00E+0	3.89E-	.9	0.00E+0
		Pote	ntial soil q	uality inde	ex			[-]	2.89E+	1 0.	00E+0	7.59E-2	0.	00E+0	3.43E-	.1	0.00E+0



Disclaimer 1 – for the indicator "Potential Human exposure efficiency relative to U235". This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not 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, deprivation-weighted water consumption", "potential comparative toxic unit for ecosystems", "potential comparative toxic unit for humans – cancerogenic", "Potential comparative toxic unit for humans – not cancerogenic", "potential soil quality index". The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

References

Standards

DIN 50018

Testing in a condensed water alternating climate with an atmosphere containing sulphur dioxide

DIN CEN/TS 16611, Martindale test

The Martindale test is originally an abrasion test for textiles. Since 2020, this test has been used as part of the Qualicoat tests to test the abrasion resistance of powder coatings.

DIN EN 12206-1

German version EN 12206-1:2004 Paints and varnishes - Coatings on aluminium and aluminium alloys for construction purposes -Part 1: Coatings made from coating powders

DIN EN 13501-1:2010-01

Fire classification of construction products and types of construction works - Part 1: Classification using results of reaction to fire tests of construction products

DIN EN 15804

EN 15804:2012+A2:2019+AC:2021, Sustainability of constructionworks — Environmental Product Declarations — Core rules for the product category of construction products

ISO 1519

German version EN ISO 1519:2011 Paints and varnishes -Mandrel bending test (cylindrical mandrel)

ISO 1520

EN ISO 1520:2006 Paints and varnishes -Cupping test

ISO 2409

German version EN ISO 2409:2013 Coating materials - Cross-cut test

ISO 2810

German version EN ISO 2810:2004 Paints and varnishes - Outdoor exposure of coatings - Weathering and evaluation

ISO 2813

DIN EN ISO 2813 2000-04 Aerospace series -

Aluminium alloy AL-P6061-T6 - Drawn internal pressure tubes 0,6 mm <= a <= 12,5 mm

ISO 2815

EN ISO 2815:2003 Paints and varnishes -Buchholz indentation test

ISO 3231

German version EN ISO 3231 Paints and varnishes -Determination of resistance to humid atmospheres containing sulphur dioxide (ISO 3231:1993)

ISO 4628-2

ISO 4628-2:2016; Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 2: Assessment of degree of blistering

ISO 6270-2 AT

German version EN ISO 6270-2:2005 Paints and varnishes - Determination of resistance to moisture -Part 2: Method for exposure of specimens to condensed water climates

ISO 6272-2

DIN EN ISO 6272-2: SO 6272-2:2011 Paints and varnishes — Rapid-deformation (impact resistance) tests — Part 2: Falling-weight test, small-area indenter

ISO 7724-3

Paints and varnishes-Colorimetry -Calculation of colour differences

ISO 8130-2

EN ISO 8130-2:2010 Powder coatings - Part 2: Determination of density using a gas comparator pycnometer (arbitration method)

ISO 9227

DIN EN ISO 9227 AASS 2012-09 Corrosion tests in artificial atmospheres

ISO 1166-44

ISO 11664-2:2007; Colorimetry - Part 2: CIE standard illuminants; German version EN 11664-2:2011 D65 is defined as a standard illuminant with a colour temperature of 6504 Kelvin

ISO 14001

Environmental management systems - Requirements with guidance for use



ISO 14025

DIN EN ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

ISO 14680-2

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

ISO 16474 Part 1-3

DIN EN ISO 16474 part 1 - 3:2014-03, Paints and varnishes - Artificial irradiation or weathering in equipment. DIN EN ISO 16474-1:2014-03: Part 1 General guidance DIN EN ISO 16474-2:2014-03: Part 2 Xenon arc lamps (e.g. WOM); Irradiation, temperature cycles DIN EN ISO 16474-3:2014-03: Part 3 Fluorescent lamps (e.g. QUV-B): Irradiation, temperature, cycles

Further References

AAMA 2605

AAMA 2605-20, Voluntary Standards, Performance Requirements and Test Procedures for Ultra-High Weather-Resistant organic coatings on aluminium profiles and sheets; according to the test design of the American Architectural Manufacturers Association (AAMA)

ASTM D2244; Sect. 6.3

ASTM D2244 Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates

ASTM D 2794

Testing of organic coatings for resistance to rapid deformation; impact loading

CIELAB or CIE

The CIE Lab system is a colour space defined by the International Commission on Illumination CIE in 1976. Colour differences are determined numerically. The model tries to adapt the geometric distance between two colours in the colour space to human perception.

Directive (EU) 2015/863 (RoHS 3)

Having regard to Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain substances classified as hazardous.

GaBi ts documentation

GaBi life cycle inventory data documentation (https://www.gabisoftware.com/support/gabi/gabidatab ase2020lcidocumentation/)

GaBi ts software

Sphera Solutions GmbH GaBi Software System and Database for Life Cycle Engineering CUP Version: 2021.2 University of Stuttgart Leinfelden Echterdingen

GSB International

Quality Association for Assuring the Quality of the Coating of Workpieces and the Pretreatment and Coating Materials Used in the Process; www.gsbinternational.com

Hunter Colour Space

Colour space defined by Richard Sewall Hunter in 1948 that describes colour ranges using "Lab" coordinates.

Like CIELAB, it was designed in such a way that colour values can be transferred from the CIEXYZ space with simple formulae, but is more uniform than XYZ in terms of perception.

IBU 2021

Institut Bauen und Umwelt e.V.: General Programme Instructions for the Preparation of EPDs at the Institut Bauen und Umwelt e.V. Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021

PCR Part A

PCR - Part A: Calculation Rules for the Life CycleAssessment and Requirements on the Project Report,Berlin: Institut Bauen und Umwelt e.V., www.ibu-epd.com, Version 2.2, 2022

PCR Part B:

PCR - Part B: Requirements for the EPD for coatings with organic binders, Institut Bauen und Umwelt e.V.. (IBU), Version 1.7, 2019

Qualicoat

Quality Association for Industrial Painting and Coating; Quality Assurance and Specifications of Processes, Products and Quality Tests; www.qualicoat.net

REACH

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

Regulation (EU) 528/2012 (EU BPR)

The Biocidal Products Regulation (BPR, Regulation (EU) 528/2012) concerns the placing on the market and use of biocidal products, which are used to protect humans, animals, materials or articles against harmful organisms like pests or bacteria.

RoHS 2011/65/EU

Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment replaces Directive 2002/95/EC

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