

Technical data sheet

IGP-DURA®*cryl* 4007E-A1

Silk gloss powder coating with excellent anti-graffiti properties and very high weather resistance.



Characteristics

- Silk gloss
- Smooth finish
- Pearl mica
- High weather resistant industrial quality
- Chemical resistant
- Anti-Graffiti



Powder properties

Particle size:	< 100 µm
Solids:	> 99 %
Density:	1.3 kg/l-1.6 kg/l
Suitability for storage:	min. 18 months at ≤ 25 °C in an unopened original container
Color tones:	RAL Metallic and individual metallic colors on request



Processing

Pre-treatment

For this product, a substrate-specific pretreatment and corresponding primer application is highly recommended. The single-layer application is carried out at the user's own responsibility.

Aluminium

- Chromating according to DIN EN 12487
- Chrome-free pretreatment according to GSB International and QUALICOAT specifications
- Pre-anodization

Steel

- Zinc phosphating

Galvanised steel

- Zinc phosphating
- Chrome (III) passivation
- Chromating according to DIN EN 12487

The suitability of the pretreatment method used is generally to be tested by the coater in advance with appropriate test methods. The minimum requirement for aluminium substrates / galvanised steel components is to carry out a boiling water test with a subsequent cross-cut adhesion and tape test. We refer to the guidelines of the GSB International, Qualicoat and Qualisteelcoat certifications. For further information: see also our special leaflet on pre-treatment (IGP-TI 100).

Coating devices

All conventional electrostatic systems with corona charging.

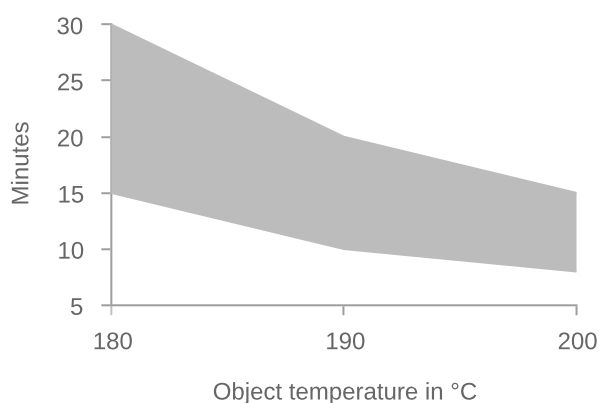
For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

Recommended film thickness

60 µm - 80 µm

It is strongly recommended that a suitable primer be applied before using this product. The application of a single-layer coat is at the user's own risk.

Curing conditions



T _{Object}	t _{min}	t _{max}
180 °C	15 minutes	30 minutes
190 °C	10 minutes	20 minutes
200 °C	8 minutes	15 minutes

In order to determine ideal curing conditions, we recommend practical trials with the respective object and curing oven.

Application

For an optimal coating and surface quality, please refer to the effect category on the container label and the recommendations in the processing guideline VR201.1.

Reclaimability

To prevent colour variations caused by loss of effect during coating, pearlescent mica products should be processed without reclaiming. In the case of automated coating with an appropriate batch size, a certain quantity of reclaimed powder may be added, depending on the shade's categorisation. Please refer to the effect category on the container label and processing guideline VR201.1.

Compatibility

Contamination with other powder coatings may result in a drop of the gloss level, cratering, loss of mechanical properties, etc. Devices and coating systems must be thoroughly cleaned before and after using the powder.



Film properties

Tested on

Substrate:	Steel, 0.5mm
Tested setting:	Tested on IGP-KORROPRIMER 10
Film thickness:	60 µm - 80 µm
Object temperature:	190 °C, 10 min.

Appearance

Gloss level	65-85 R'/60°	DIN EN ISO 2813 2015-02
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Mechanical tests

Cross-cut adhesion test	Gt 0	DIN EN ISO 2409 2020-12
Mandrel bending test / Tape test	≤ 8 mm	DIN EN ISO 1519 2011
Impact test / Tape test	≥ 10 inchp.	ASTM D 2794 1993
Erichsen cupping / Tape test	≥ 2 mm	DIN EN ISO 1520 2007-11
Buchholz hardness	≥ 100	DIN EN ISO 2815 2003-10 (Anhang A)

Weathering tests

QUV-SE-B-313, 600h	> 50 % residual gloss	DIN EN ISO 16474-3 2014-03
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Corrosion tests

Condensation water test, 500-1000h*	No infiltration, no blisters. *depending on pretreatment	DIN EN ISO 6270-2 2018-04
Natural salt spray test, 500-1000h*	No infiltration, no blisters. *depending on pretreatment.	DIN EN ISO 9227 2017-07

Chemical tests

Organic solvents	Outstanding resistance to organic solvents
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Further information

Packaging

20 kg cardboard box with inserted antistatic PE liner
500 kg cardboard container with 25 antistatic PE-liners each 20kg

Overcoating suitability

For overcoating anti-graffiti powder coatings, sanding and preliminary tests are mandatory.

Protection of coated parts

Coated parts should be packed after cooling with suitable materials without plasticizers. They should be stored protected from the weather to avoid the formation of condensation and thus water spots on the coating.

Cleaning

The coated parts must be cleaned according to the directives RAL-GZ 632 or SZFF 61.01. Technical Information IGP-TI 106 must also be observed when dealing with pearl mica effects.

Graffiti removal

The following procedure should be observed when removing graffiti:

- The contact time of the graffiti with the surface must be kept as brief as possible
- Preliminary tests to select a suitable graffiti remover
- Thorough rinsing of the cleaned areas with water
- The contact time of the graffiti remover with the surface must be kept as brief as possible

IGP recommendation:

- Elite 007 graffiti remover from Crous Chemicals GmbH
- Socostrip T4210P from Socomore
- Bonderite S-ST 1302 and Bonderite C-MC 400 from Henkel AG
- or a different non-abrasive cleaner

Paint removal and disposal

After use, coated goods should be supplied to the normal recycling process. The disposal methods for sludges or residual powders must be observed in accordance with the local official provisions whilst taking Waste Code "080201 Coating Powder Wastes" in accordance with the European Waste Catalogue into consideration.

This application-related advice is given to the best of our knowledge. However, this information is non-obligatory and does not exempt you from carrying out your own tests. Application, use and processing of these products are beyond our control and are therefore on your responsibility.

Consult the Safety Data Sheet prior to use. Article-specific safety data sheet and comprehensive risk management measures available at: [igp-powder.com](https://www.igp-powder.com)