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IGP Powder Coatings TDS IGP-DURA®cryl 4007A-A1 240424 v1.4
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
IGP Powder Coatings TDS IGP-DURA®cryl 4007A-A1 240424 v1.4
Technical data sheet
ICD DIID A @ cm. 1 4007 A A 1
IGP-DURA®cryl 4007A-A1
Silk gloss powder coating with excellent anti-graffiti properties and very high weather resistance.
Characteristics
• Silk gloss
• Smooth finish
 Uni colours Super durable industrial quality
Chemical resistant
• Antigraffiti
Powder properties
Particle size:
Solids: Density:

Suitability for storage: < 100 µm > 99 %
1.3 kg/l-1.6 kg/l
min. 18 months at \leq 25 °C
in an unopened original container
Color tones:
RAL and NCS-S shades, individual 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

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.

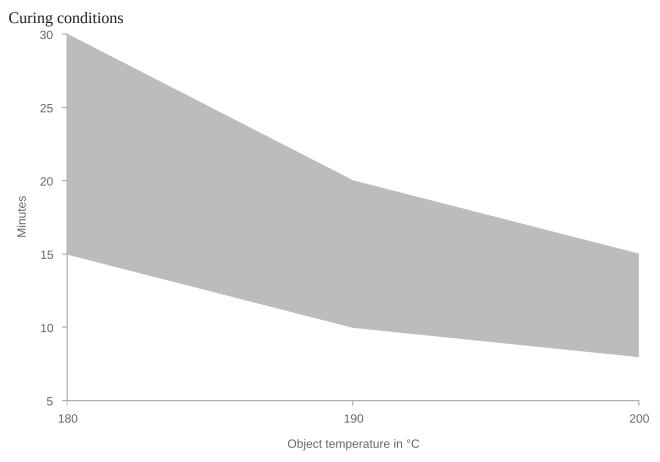
For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

Recommended film thickness

60 μm - 80 μm

A homogeneous coating result with textured coatings or article-and color specific differences in hiding power may require higher coating thicknesses. The corresponding processing guidelines must be observed.

For a pre-calculation of the required powder coating quantity, the necessary coating thickness must be determined for each article.



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.

Reclaimability

Small portions of recycled powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum.

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

≤ 8 mm	
Mandrel bending test / Tapetest	
DIN EN ISO 1519 2011	
Impact test / Tape test	
\geq 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	
Weathering	
QUV-SE-B-313, 600h	
> 50 % residual gloss	
DIN EN ISO 16474-3 2014-03	
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	
Further information	

Packaging

Film thickness: 60 μm - 80 μm

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

Overcoating

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. Graffiti removal

The following procedure should be observed when removing grafitti:

- The contact time of the gaffiti 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 grafitti 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.