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IGP Powder Coatings

TDS IGP-DURA®pol 6807D-H3|240424|v1.1

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**

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Technical data sheet

## IGP-DURA®*pol* 6807D-H3

Silk gloss, low-temperature powder coating with a smooth finish, ideal for interior and exterior applications.



### Characteristics

- Silk gloss
- Smooth finish
- Metallic
- Premium Bond
- Industrial outdoor quality
- Cover with transparent



### Powder properties

Particle size:

Solids:

Density:  
Suitability for storage:  
< 3.94 mil  
> 99 %  
10.85 lb/gal-13.35 lb/gal  
min. 18 months at  $\leq 77$  °F  
in an unopened original container  
Color tones:  
RAL Metallic and individual metallic colors on request

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## Processing

### Pre-treatment

The substrate must be free from oil, grease and oxidation products. The pretreatment depends on the type of substrate and the corrosion protection to be achieved. We recommend the following pretreatments:

#### Aluminum

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

#### Steel

- Zinc phosphating

#### Galvanized steel

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

For improved corrosion protection for applications on steel / galvanized steel, the use of corrosion protection primer IGP-KORROPRIMER 18 is recommended. 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 aluminum substrates / galvanized 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

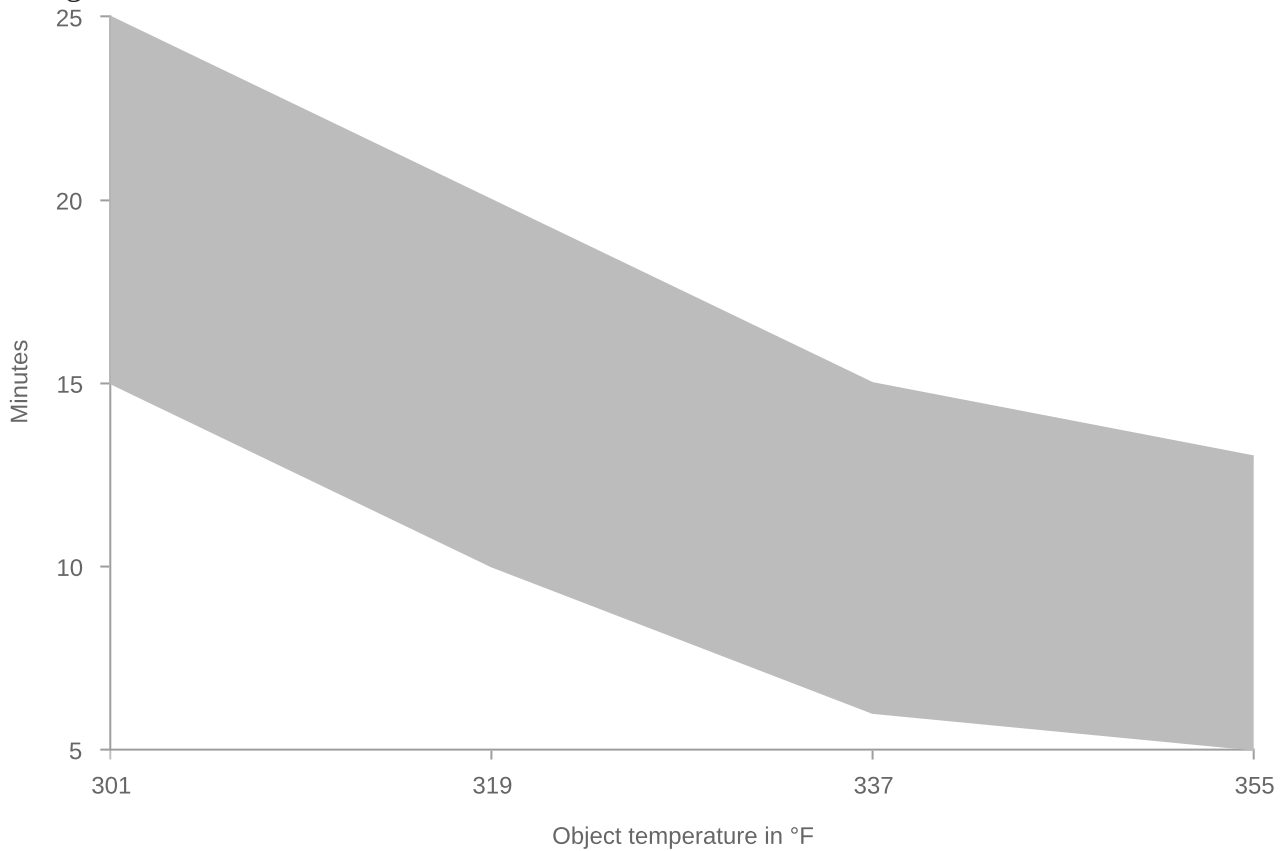
All conventional electrostatic systems with corona charging. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

#### Recommended film thickness

2.36 mil - 3.15 mil

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.

**Curing conditions**



<b>T Object</b>	<b>t<sub>min</sub></b>	<b>t<sub>max</sub></b>
302 °F	15 minutes	25 minutes
320 °F	10 minutes	20 minutes
338 °F	6 minutes	15 minutes
356 °F	5 minutes	13 minutes

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

**Application**

IGP processing instruction for “IGP-DURA®xal”: VR 207.2.

**Reclaimability**

Small portions of recycled powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum. Processing instruction VR 201.1 must be observed.



**Film properties**

Tested on

Substrate:  
Aluminum (AlMg1), 0.8 mm, chromated  
Film thickness:  
2.36 mil - 3.15 mil  
Object temperature:  
320 °F, 10 min.  
Appearance  
Gloss level  
65-85 R'/60°  
DIN EN ISO 2813 2015-02  
Mechanical tests  
Cross-cut adhesion test  
Gt 0  
DIN EN ISO 2409 2020-12  
Mandrel bending test / Tape test  
≤ 5 mm  
DIN EN ISO 1519 2011  
Impact test  
≥ 20 inchp.  
ASTM D 2794 1993  
Erichsen cupping  
≥ 5 mm  
DIN EN ISO 1520 2007-11  
Buchholz hardness  
≥ 80  
DIN EN ISO 2815 2003-10  
Weathering tests  
QUV-SE-B-313, 200h  
> 50 % residual gloss  
DIN EN ISO 16474-3 2014-03  
Corrosion tests  
Condensation water test, 1000h  
No infiltration, no blisters  
DIN EN ISO 6270-2 2018-04  
Natural salt spray test, 1000h  
No infiltration, no blisters  
DIN EN ISO 9227 2017-07

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## More information

### Packaging

20 kg cardboard box with inserted antistatic PE liner

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

### 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.

#### 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.