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IGP Powder Coatings

TDS IGP-DURA®pox 0309B-A6|240424|v1.2

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®pox 0309B-A6

High gloss epoxy clear coat for special purposes.



### Characteristics

- Gloss
- Smooth finish
- Transparent
- Indoor quality



### Powder properties

Particle size:

Solids:

Density:

Suitability for storage:

< 3.94 mil

> 99 %  
10.01 lb/gal-11.68 lb/gal  
min. 12 months at  $\leq 77$  °F  
in an unopened original container  
Color tones:  
transparent

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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
- Iron phosphating

#### Galvanized 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 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

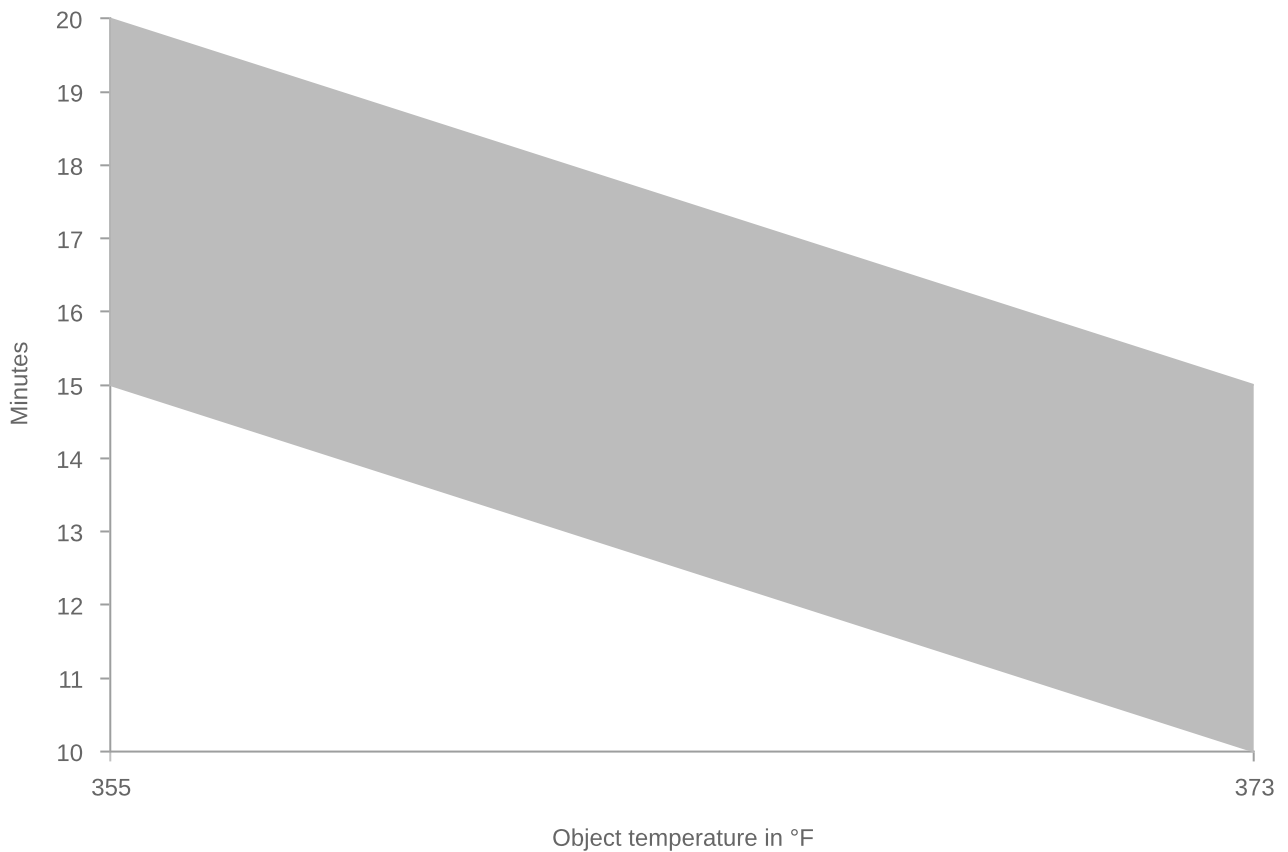
All conventional electrostatic systems with corona charging. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

#### 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



T Object	t min	t max
356 °F	15 minutes	20 minutes
374 °F	10 minutes	15 minutes

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



## Film properties

Tested on

Substrate:

Steel, 0.5 mm

Film thickness:

2.36 mil - 3.15 mil

Object temperature:

374 °F, 10 min.

Appearance

Gloss level

60-80 R'/60°

DIN EN ISO 2813 2015-02

Mechanical tests  
Cross-cut adhesion test  
Gt 0  
DIN EN ISO 2409 2020-12  
Erichsen cupping  
≥ 1 mm  
DIN EN ISO 1520 2007-11  
Impact test  
≤ 20 inhp.  
ASTM D 2794 1993  
Buchholz hardness  
≥ 80  
DIN EN ISO 2815 2003-10  
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  
Acids and alkalis  
Very good resistance to many dilute acids and alkalis.  
Organic solvents  
Outstanding resistance to organic solvents  
Additional properties  
Continuous heat resistance  
> 120°C allmähliche Vergilbung

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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  
500 kg Big Bag

### 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.

### 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.