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IGP Powder Coatings

TDS IGP-DURA®*than* 8009B-A0|240424|v2.1

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®*than* 8009B-A0

High gloss, weather-resistant, caprolactam-free polyurethane clear coat for interiors and exteriors.



Characteristics

- Gloss
- Smooth finish
- Transparent
- Industrial outdoor quality



Powder properties

Particle size:

Solids:

Density:

Suitability for storage:

< 100 µm

> 99 %
1.2 kg/l-1.3 kg/l
min. 24 months at $\leq 25\text{ }^{\circ}\text{C}$
in an unopened original container
Color tones:
transparent-unicolor



Processing

Pre-treatment

Suitable for overcoating already painted surfaces, especially for the protection of metallic coatings.

The suitability of the pretreatment method used is generally to be tested by the coater in advance with appropriate test methods. 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-TI100).

Coating devices

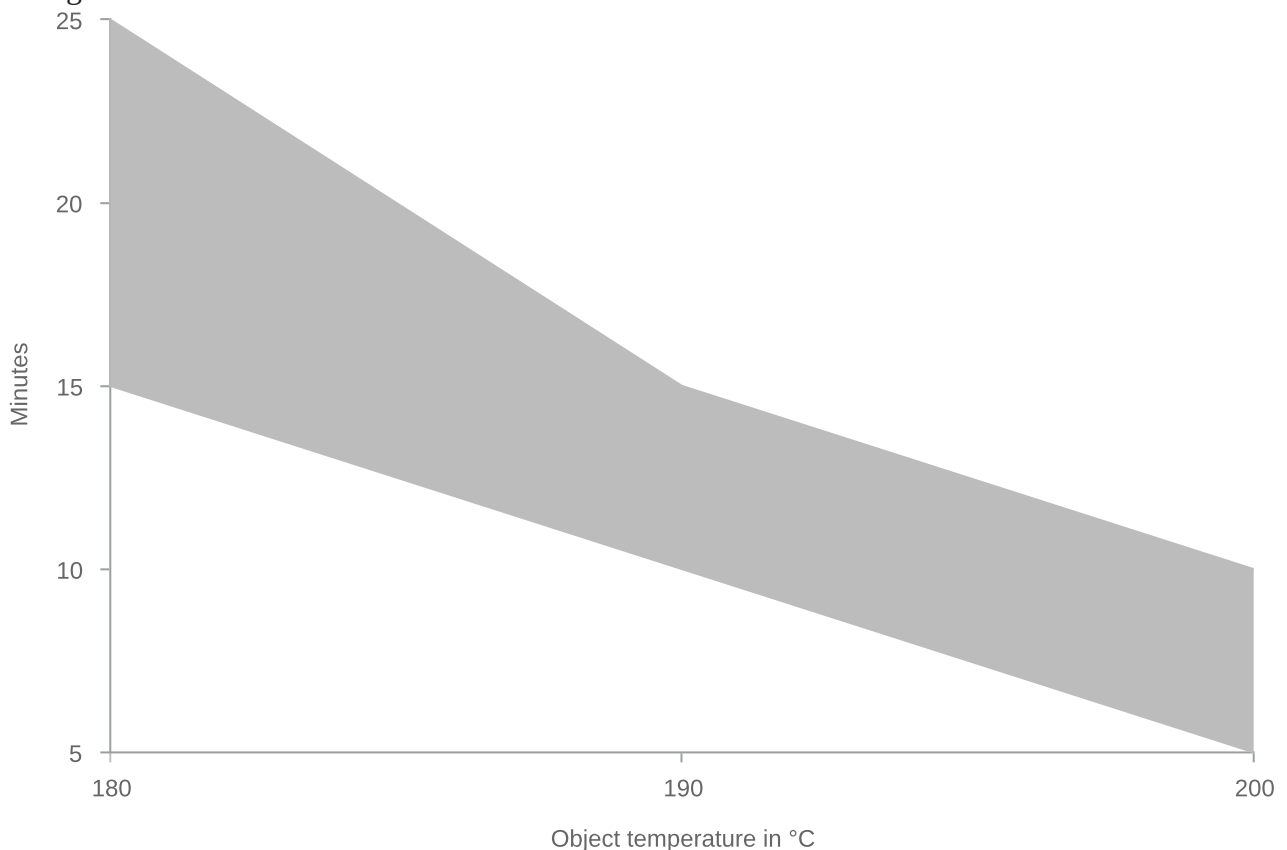
All commercially available electrostatic systems, both corona and tribo charge systems.

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

Curing conditions



T Object	t _{min}	t _{max}
180 °C	15 minutes	25 minutes
190 °C	10 minutes	15 minutes
200 °C	5 minutes	10 minutes

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

Application

Coloured transparent coating powders are mainly suitable for small parts or pipe constructions and not for large, flat surfaces. Furthermore, the visual impression is very much influenced by film thickness and homogeneity: Different film thicknesses result in different colour shades! For this reason, it is not advisable to recoat coloured-transparent powder coatings for repair purposes. Devices and coating systems must be thoroughly cleaned before using the powder.

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:

Aluminum (AlMg1), 0.8mm, chromated

Film thickness:

60 µm - 80 µm

Object temperature:

190 °C, 10 min.

Appearance

Gloss level

85-100 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

≤ 5 mm

DIN EN ISO 1519 2011

Impact test

≥ 20 inhp.

ASTM D 2794 1993

Erichsen cupping

≥ 5 mm

DIN EN ISO 1520 2007-11

Buchholz hardness

≥ 80

DIN EN ISO 2815 2003-10

Weathering

1 year Florida, 5° south
> 50 % residual gloss
DIN EN ISO 2810 2021-01
QUV/SE-B-313, 300h
> 50 % residual gloss
DIN EN ISO 16474-3 2014-03
Xenon-arc lamps, 1000h
> 50 % residual gloss
DIN EN ISO 16474-2 2014-03



Further information

Packaging

15 kg cardboard box with inserted antistatic PE liner

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.