Technical data sheet

IGP-DURA®*than* 8005B-A1

Silk matte, weather-resistant and chip-free polyurethane powder clearcoat for interior and exterior use.

Characteristics

- Silk matte
- Smooth finish
- Transparent
- Standard facade quality,
  1 year Florida > 50% residual gloss

Powder properties

Particle size:	< 100 µm
Solids:	> 99 %
Density:	1.2 kg/l-1.3 kg/l
Suitability for storage:	min. 24 months at ≤ 25 °C in an unopened original container
Color tones:	transparent-unicolor

Processing

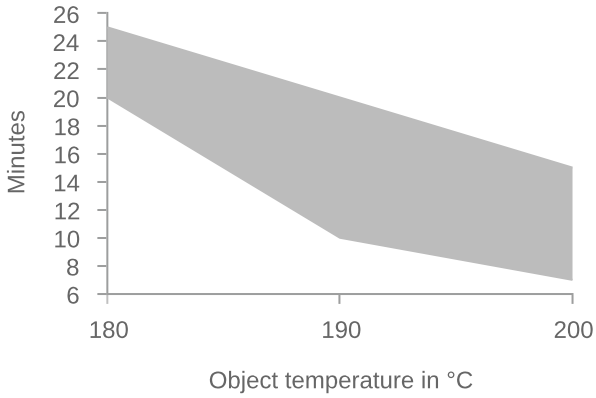
Pre-treatment
Suitable for overcoating already painted surfaces, especially for the protection of metallic coatings.

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 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

Curing conditions



T_{Object}	t_{min}	t_{max}
180 °C	20 minutes	25 minutes
190 °C	**10 minutes**	**20 minutes**
200 °C	7 minutes	15 minutes

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

Application

When applying transparent coatings, it is naturally important to ensure that the equipment and surrounding area are kept exceptionally clean.
Please follow the recommendations in Application Guideline VR209.

Reclaimability

To prevent contamination, particular care must be taken to ensure that the entire coating plant is thoroughly cleaned. As a general rule, clear powder coatings are suitable for reclaiming.

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	45-55 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 inchp.	ASTM D 2794 1993
Erichsen cupping	≥ 5 mm	DIN EN ISO 1520 2007-11
Buchholz hardness	≥ 80	DIN EN ISO 2815 2003-10 (Anhang A)

Weathering tests

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

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.

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**