



Technical data sheet

IGP-DURA[®]than 8009B-A0S

High gloss, weather-resistant, caprolactam-free polyurethane powder coating for interiors and exteriors, also available as a clear coat.



Characteristics

- Gloss
- Smooth finish
- Transparent
- Industrial outdoor quality



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 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.

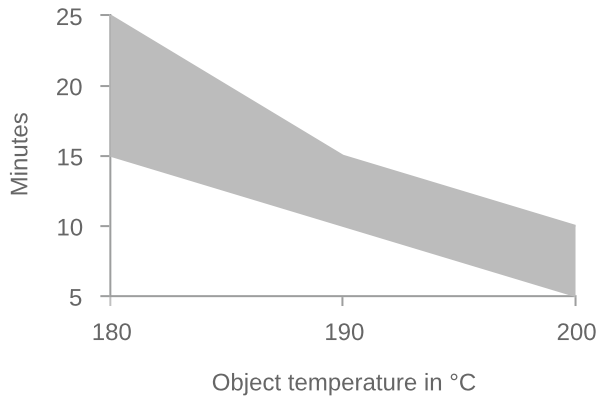
Recommended film thickness

60 µm - 80 µm

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

For a preliminary calculation of the required powder coating quantity, the required Film thickness must be determined for each specific article.

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), 0.8 mm chrom-free
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
Erichsen cupping ≥ 5 mm DIN EN ISO 1520 2007-11
Impact test ≥ 20 inchp. ASTM D 2794 1993
Mandrel bending test ≤ 5 mm DIN EN ISO 1519 2011
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

Chemical tests

Mortar resistance	Easily removable after 24h with no residues.	ASTM D 3260 2001
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Further information

Packaging

15 kg cardboard box with inserted antistatic PE liner

Overcoating suitability

Preliminary tests are mandatory for overcoating painted surfaces.

Printing and glueing

Preliminary tests are mandatory for printing and glueing of painted surfaces.

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](https://www.igp-powder.com)