





Technical data sheet

IGP-DURA® face 5809A-P0

Gloss powder coating with optimized finish for light shades only, based on saturated polyester and a declaration-free hardener.



Characteristics

- Gloss
- Smooth finish
- Uni colours
- Standard facade quality,1 year Florida > 50% residual gloss



Material approvals

- Part of QSC-System
- Qualicoat Nr. P-1200, class 1
- QSC ST2 PE-0015/IGP-KORROPRIMER 1001
- QSC ST2 PE-0016/IGP-KORROPRIMER 6007
- QSC HD2 PE-0017/IGP-KORROPRIMER 1001
- QSC HD2 PE-0018/IGP-KORROPRIMER 6007
- QSC MS1 PE-0074/IGP-KORROPRIMER 1001







Powder properties

Particle size: $< 100 \,\mu m$ Solids: $> 99 \,\%$

Density: 1.3 kg/l-1.6 kg/l

Suitability for storage: min. 24 months at \leq 25 °C

in an unopened original container

Color tones: White shades like

- RAL 9001 - Cream

- RAL 9002 - Grey White

- RAL 9003 – Signal White

- RAL 9010 - Pure White

- RAL 9016 - Traffic White

- RAL 9018 - Papyrus White

- RAL 1013 - Oyster White

Furthermore special additional shades from colour systems (e.g. NCS/Pantone/RAL), which can be depicted in a corresponding colour chart.



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:

Aluminium

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

Steel

Zinc phosphating

Galvanised steel

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

For improved corrosion protection for applications on steel / galvanised steel, the use of corrosion protection primer IGP-KORROPRIMER 10 or IGP-KORROPRIMER 60 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 aluminium substrates / galvanised 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

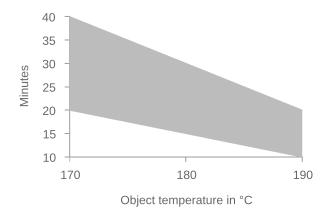
All commercially available electrostatic systems, both corona and tribo charge systems. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

Recommended film thickness

 $60 \, \mu m - 80 \, \mu m$

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}
170 °C	20 minutes	40 minutes
180 °C	15 minutes	30 minutes
190 °C	10 minutes	20 minutes

In order to determine ideal curing conditions, we recommend practical trials with the respective object 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: Aluminum (AIMg1), 0.8 mm chrom-free

Tested colours: RAL 9010, 5010, 3005

Film thickness: $60 \, \mu m$ - $80 \, \mu m$ Object temperature: $180 \, ^{\circ}\text{C}$, $10 \, \text{min}$.

Appearance

Gloss level 80-100 R'/60° DIN EN ISO 2813 2015-02

Mechanical tests

Cross-cut adhesion testGt 0DIN EN ISO 2409 2020-12Mandrel bending test≤ 5 mmDIN EN ISO 1519 2011Impact test≥ 20 inchp.ASTM D 2794 1993Buchholz hardness≥ 80DIN EN ISO 2815 2003-10Erichsen cupping≥ 5 mmDIN EN ISO 1520 2007-11

Weathering

1 year Florida, 5° south > 50 % residual gloss DIN EN ISO 2810 2021-01

Corrosion tests

Acetic acid salt spray test, 1000h No infiltration, no blisters DIN EN ISO 9227 2017-07 Condensation water test, 1000h No infiltration, no blisters DIN EN ISO 6270-2 2018-04

Chemical tests

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



Further information

Packaging

20 kg cardboard box with inserted antistatic PE liner

Overcoating

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**