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IGP Powder Coatings TDS IGP-DURA®face 5809A-A0 240424 v1.3 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: <b>igp-powder.com</b>
IGP Powder Coatings TDS IGP-DURA®face 5809A-A0 240424 v1.3
Technical data sheet
IGP-DURA®face 5809A-A0
Gloss powder coating with a smooth finish and good weathering stability based on saturated polyester and a declaration-free hardener.
Characteristics
<ul> <li>Gloss</li> <li>Smooth finish</li> <li>Uni colors</li> <li>Standard façade quality, 1 year Florida &gt; 50% residual gloss</li> </ul>
Material approvals
<ul> <li>Part of QSC-System</li> <li>Qualicoat Nr. P-0614, class 1</li> <li>QSC ST2 PE-0015/IGP-KORROPRIMER 1001</li> <li>QSC ST2 PE-0016/IGP-KORROPRIMER 6007</li> </ul>

<ul> <li>QSC HD2 PE-0017/IGP-KORROPRIMER 1001</li> <li>QSC HD2 PE-0018/IGP-KORROPRIMER 6007</li> <li>QSC MS1 PE-0074/IGP-KORROPRIMER 1001</li> </ul>
Powder properties
Particle size: Solids: Density: Suitability for storage: < 3.94 mil > 99 % 10.85 lb/gal-13.35 lb/gal min. 24 months at ≤ 77 °F in an unopened original container Color tones: RAL and NCS-S shades, individual colors on request
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
<ul> <li>Chromating according to DIN EN 12487</li> <li>Pre-anodization</li> <li>Chrome-free pretreatment according to GSB International and QUALICOAT specifications</li> </ul>
Steel
• Zinc phosphating
Galvanized steel
• Zinc phosphating

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

For improved corrosion protection for applications on steel / galvanized 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 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).

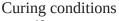
## Coating devices

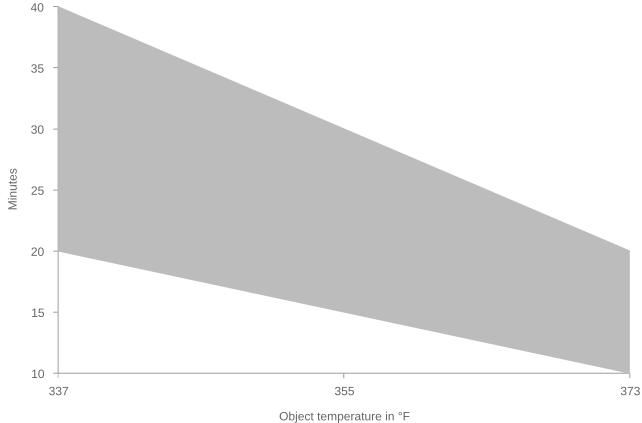
All commercially available electrostatic systems, both corona and tribo charge systems. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

Recommended film thickness

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.





## T Object t min t max

338 °F 20 minutes 40 minutes

356 °F 15 minutes 30 minutes

374 °F 10 minutes 20 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:

Aluminum (AlMg1), 0.8 mm chromium-free

Tested shades:

RAL 9010, 5010, 3005

Film thickness:

2.36 mil - 3.15 mil

Object temperature:

356 °F, 15 min.

Appearance

Gloss level

80-100 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

 $\geq$  20 inchp.

ASTM D 2794 1993

Erichsen cupping

 $\geq 5 \text{ mm}$ 

DIN EN ISO 1520 2007-11

**Buchholz** hardness

≥ 80

DIN EN ISO 2815 2003-10

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

Corrosion tests

Condensation water test, 1000h

No infiltration, no blisters

DIN EN ISO 6270-2 2018-04 Acetic acid salt spray test, 1000h No infiltration, no blisters DIN EN ISO 9227 2017-07 Chemical tests Mortar resistance Easily removable after 24h with no residues. ASTM D 3260 2001

## **More information**

Packaging

20 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.