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IGP Powder Coatings TDS IGP-DURA®face 5807E-S3 240424 v1.2 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
IGP Powder Coatings TDS IGP-DURA®face 5807E-S3 240424 v1.2
Technical data sheet
IGP-DURA® face 5807E-S3
Silk gloss powder coating for an attractive finish and good weathering stability, allows very efficient cleaning.
Characteristics
 Silk gloss Smooth finish Pearl mica Premium Standard facade quality, 1 year Florida > 50% residual gloss Increased scratch resistance Clean Effect
Material approvals

• GSB 173u - Florida 1

 Part of QSC-System Qualicoat Nr. P-0230, class 1 Qualicoat Nr. P-1629, 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 AAMA 2603-15, independent test report
Powder properties
Particle size: Solids: Density: Suitability for storage: < 100 µm > 99 % 1.3 kg/l-1.6 kg/l min. 24 months at ≤ 25 °C in an unopened original container Color tones: RAL Metallic and individual metallic 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: 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 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.

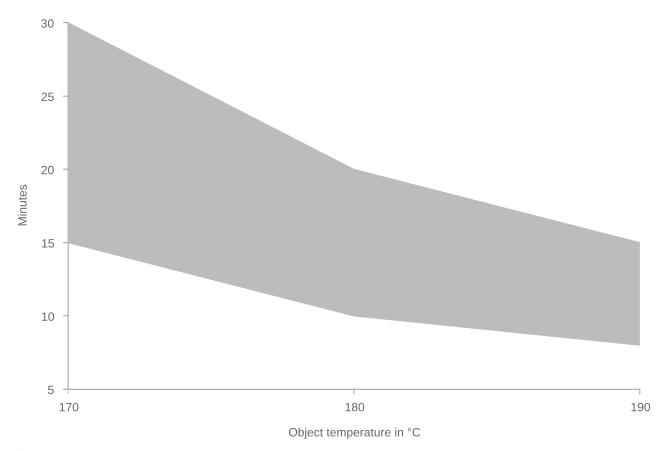
Recommended film thickness

 $60 \mu m - 80 \mu m$

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 15 minutes 30 minutes 180 °C 10 minutes 20 minutes 190 °C 8 minutes 15 minutes

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

Reclaimability

Small portions of recovered powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum. Processing instruction VR201.1 must be observed.

Film properties

Tested on Substrate:

Aluminum (AlMg1), 0.8 mm chrom-free

Film thickness:

60 μm - 80 μm

Object temperature:

180°C, 10 min.

Appearance

Gloss level

65-85 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 $\leq 5 \text{ mm}$ DIN EN ISO 1519 2011 Impact test \geq 20 inchp. ASTM D 2794 1993 **Buchholz** hardness ≥ 80 DIN EN ISO 2815 2003-10 Erichsen cupping \geq 5 mm DIN EN ISO 1520 2007-11 Robustness according to Martindale, residual gloss_60% $\geq 60 \%$ IGP AA341.62 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 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

ASTM D 3260 2001

Further information

Packaging

20 kg cardboard box with inserted antistatic PE liner

Easily removable after 24h with no residues.

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. Technical Information IGP-TI 106 must also be observed when dealing with pearl mica effects. 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.