IGP Powder Coatings TDS IGP-DURA®pol 6807A-G0 care 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®pol 6807A-G0 care 240424 v1.2
Technical data sheet
IGP-DURA®pol 6807A-G0 care
Silk gloss, low-temperature powder coating with a smooth finish, ideal for interior and exterior applications.
Characteristics
 Silk gloss Smooth finish Uni colours Industrial outdoor quality Contains biocides
Material approvals
• Protected by Sanitized®

Powder properties
Particle size: Solids: Density: Suitability for storage: < 100 µm > 99 % 1.5 kg/l-1.6 kg/l min. 12 months at ≤ 25 °C in an unopened original container Color tones: On request
Drocosing
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

For improved corrosion protection for applications on steel / galvanised steel, the use of corrosion protection primer IGP-KORROPRIMER 18 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.

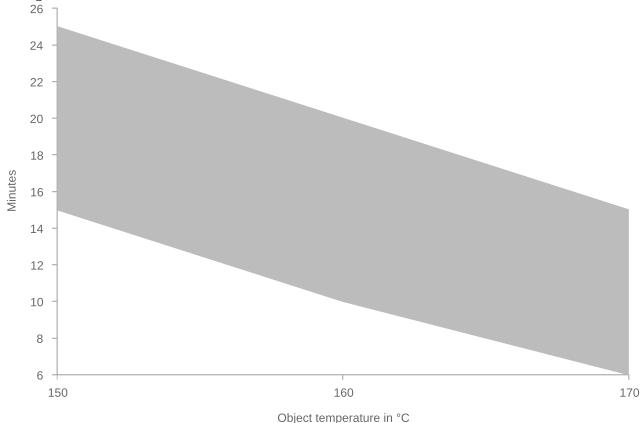
Recommended film thickness

60 μm - 80 μm

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

150 °C 15 minutes 25 minutes

160 °C 10 minutes 20 minutes

170 °C 6 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 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), 0.8mm, chromated

Film thickness:

60 μm - 80 μm

Object temperature:

160 °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

Erichsen cupping

 $\geq 5 \text{ mm}$

DIN EN ISO 1520 2007-11

Buchholz hardness

 ≥ 80

DIN EN ISO 2815 2003-10

Corrosion tests

Condensation water test, 1000h

No infiltration, no blisters

DIN EN ISO 6270-2 2018-04

Natural salt spray test, 1000h

No infiltration, no blisters

DIN EN ISO 9227 2017-07

Chemical tests

Acids and alkalis

Good resistance to many dilute acids and alkalis.

Contact to sulfur containing compounds could lead to deactivation of the silver based additive.

The usage in industrial atmosphere should be therefore avoided.



Further information

Packaging

20 kg cardboard box with inserted antistatic PE liner 500 kg cardboard container with 25 antistatic PE-liners each 20kg 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.