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IGP Powder Coatings TDS IGP-DURA®pol 6807A-D0 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: igp-powder.com
IGP Powder Coatings TDS IGP-DURA®pol 6807A-D0 240424 v1.3
Technical data sheet
IGP-DURA®pol 6807A-D0
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 Abrasion resistant
Powder properties
Particle size: Solids:

Density:

Suitability for storage:
< 100 μm
> 99 %
1.3 kg/l-1.6 kg/l
min. 18 months at \leq 25 °C
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: 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 18 is recommended.

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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.

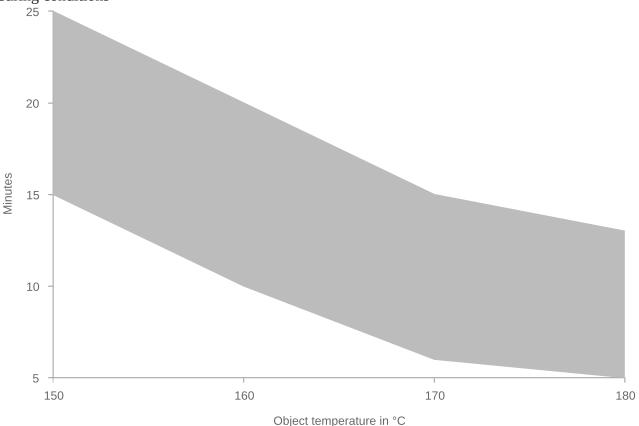
Recommended film thickness

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

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

150 °C 15 minutes 25 minutes

160 °C 10 minutes 20 minutes

170 °C 6 minutes 15 minutes

180 °C 5 minutes 13 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

 $60 \mu m - 80 \mu m$ 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 Weathering QUV-SE-B-313, 200h > 50 % residual gloss DIN EN ISO 16474-3 2014-03 Corrosion tests Natural 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

Further information

Packaging

Film thickness:

 $20\ kg$ cardboard box with inserted antistatic PE liner

500 kg cardboard container with 25 antistatic PE-liners each 20kg

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.	:e