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IGP Powder Coatings TDS IGP-DURA®pol 6802A-C1 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®pol 6802A-C1 240424 v1.3
Technical data sheet
IGP-DURA®pol 6802A-C1
Matte, highly reactive powder coating with smooth flow and electrostatic dissipative properties (ESD).
Characteristics
<ul> <li>Matte</li> <li>Smooth finish</li> <li>Uni colours</li> <li>Industrial outdoor quality</li> <li>Electric. discharging</li> </ul>
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:
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
<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
Galvanised steel
<ul> <li>Zinc phosphating</li> <li>Chrome (III) passivation</li> <li>Chromating according to DIN EN 12487</li> </ul>
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.

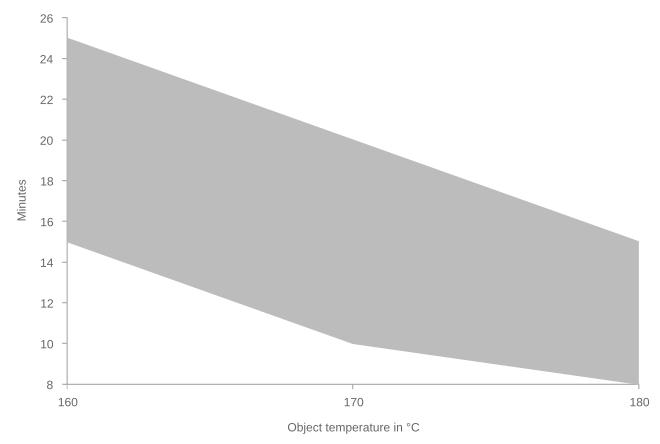
For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

Recommended film thickness

60 μm - 80 μm

With higher layers, the powder coating becomes insulating.

Curing conditions



**T** Object **t** min **t** max 160 °C 15 minutes 25 minutes 170 °C 10 minutes 20 minutes 180 °C 8 minutes 15 minutes

The oven temperature should be limited to 200°C

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

Application

A voltage setting of minimum 50kV is recommended for spraying.

Ideally using a discharge ring ("super corona") otherwise set the current limit to  $\geq 5\mu A$ .

Non-consideration may lead to a significant higher gloss level.

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:

Object temperature: 170 °C, 10 min. Appearance Gloss level 20-30 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 ≥ 5 mm DIN EN ISO 1520 2007-11 Buchholz hardness  $\geq 80$ DIN EN ISO 2815 2003-10 Weathering QUV-SE-B-313, 200h > 50 % residual gloss DIN EN ISO 16474-3 2014-03 Corrosion tests 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 Additional properties electrostatic discharge resistance TI 101 DIN EN 61340-2-3 2017-05

60 μm - 80 μm

## **Further information**

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