





Technical data sheet

# IGP-DURA®pol 6802A-G2 care

Matt low-temperature powder coating with smooth flow, ideal for indoor and outdoor applications. Finished with biocides.



# **Characteristics**

- Matte
- Smooth finish
- Uni colours
- Industrial outdoor quality
- Contains biocides



# **Powder properties**

Particle size:  $< 100 \,\mu m$ Solids:  $> 99 \,\%$ 

Density: 1.5 kg/l-1.6 kg/l

Suitability for storage: min. 12 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

- 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.

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.

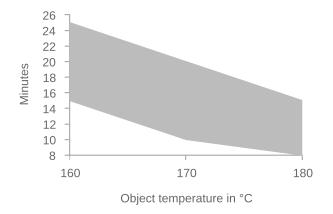
For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

### 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 <sub>min</sub>	t <sub>max</sub>
160 °C	15 minutes	25 minutes
170 °C	10 minutes	20 minutes

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:  $60 \, \mu m - 80 \, \mu m$ Object temperature:  $170 \, ^{\circ}\text{C}$ ,  $10 \, \text{min}$ .

### **Appearance**

Gloss level 20-30 R'/60° DIN EN ISO 2813 2015-02

### Mechanical tests

Cross-cut adhesion testGt 0DIN EN ISO 2409 2020-12Mandrel bending test≤ 5 mmDIN EN ISO 1519 2011Impact test≥ 20 inchp.ASTM D 2794 1993Erichsen cupping≥ 5 mmDIN EN ISO 1520 2007-11Buchholz hardness≥ 80DIN 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**

Organic solvents Limited resistance to organic

solvents.

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

### 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.

This application-related advice is given to the best of our knowledge. However, this information is nonobligatory 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