



Technical data sheet

## IGP-DURA®*match* 6T1TA-E1

Matte, weather-resistant, low-temperature powder coating with a fine texture and improved bendability, ideal for interior and exterior applications.



### Characteristics

- Deep matte
- Fine texture
- Uni colours
- More pliable



### Powder properties

|                          |  |
|--------------------------|--|
| Particle size:           | < 100 µm   |
| Solids:                  | > 99 %   |
| Density:                 | 1.3 kg/l-1.6 kg/l  |
| Suitability for storage: | min. 24 months at ≤ 25 °C<br>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

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.

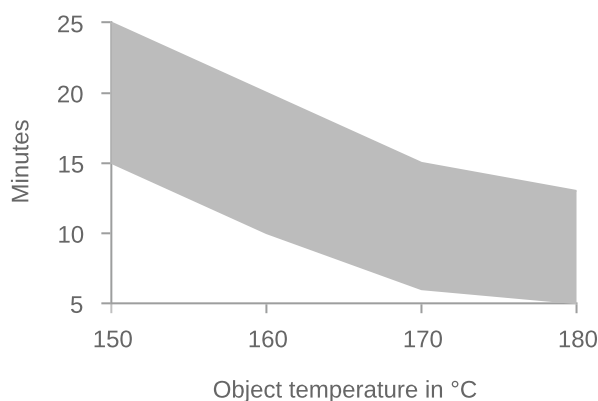
### Recommended film thickness

60 µm - 80 µm

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 <sub>Object</sub> | t <sub>min</sub>  | t <sub>max</sub>  |
|---------------------|-------------------|-------------------|
| 150 °C              | 15 minutes        | 25 minutes        |
| <b>160 °C</b>       | <b>10 minutes</b> | <b>20 minutes</b> |
| 170 °C              | 6 minutes         | 15 minutes        |
| 180 °C              | 5 minutes         | 13 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.

### Reclaimability

Small portions of recycled powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum. Processing instruction VR214 must be observed.



## Film properties

### Tested on

Substrate: Aluminum (AlMg1), 0.8 mm chrom-free  
 Film thickness: 60 µm - 80 µm  
 Object temperature: 160 °C, 10 min.

### Mechanical tests

|                         |             |                         |
|-------------------------|-------------|-------------------------|
| Cross-cut adhesion test | Gt 0        | DIN EN ISO 2409 2020-12 |
| Mandrel bending test    | ≤ 2 mm      | DIN EN ISO 1519 2011    |
| Impact test             | ≥ 50 inchp. | ASTM D 2794 1993        |

Erichsen cupping

≥ 7 mm

DIN EN ISO 1520 2007-11

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### **Weathering**

QUV-SE-B-313, 200h

> 50 % residual gloss

DIN EN ISO 16474-3 2014-03

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## **Further information**

### **Packaging**

20 kg cardboard box with inserted antistatic PE liner

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

### **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.

### **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 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](http://igp-powder.com)