



## Technical data sheet

**IGP-DURA®mix 3303A-A0**

Matte, elegant powder coating with a large variety of special effects such as thin-coat solutions.

**Characteristics**

- Matte
- Smooth finish
- Uni, without effect
- Indoor quality

**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:             | 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
- Iron 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 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.

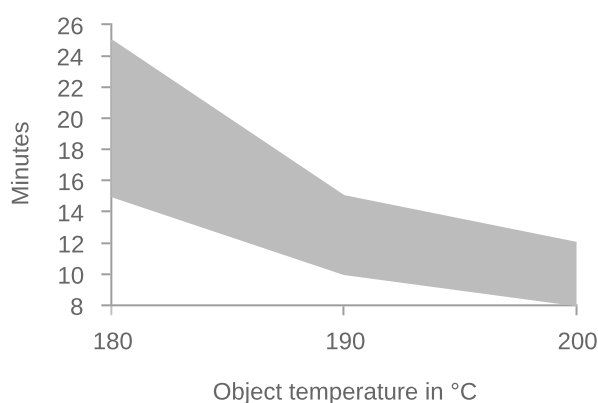
### Recommended film thickness

60 µm - 80 µm

A homogeneous coating result with textured paints or colour or article-specific differences in hiding power may require higher Film thicknesses. The corresponding processing guidelines must be observed.

For a preliminary calculation of the required powder coating quantity, the required Film thickness must be determined for each specific article.

### Curing conditions



| T <sub>Object</sub> | t <sub>min</sub>  | t <sub>max</sub>  |
|---------------------|-------------------|-------------------|
| 180 °C              | 15 minutes        | 25 minutes        |
| <b>190 °C</b>       | <b>10 minutes</b> | <b>15 minutes</b> |
| 200 °C              | 8 minutes         | 12 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:          | Steel, 0.5mm    |
| Tested colours:     | RAL 9010        |
| Film thickness:     | 60 µm - 80 µm   |
| Object temperature: | 190 °C, 10 min. |

### Appearance

|             |              |
|-------------|--------------|
| Gloss level | 20-35 R'/60° |
|-------------|--------------|

DIN EN ISO 2813 2015-02

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### 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             | ≥ 10 inchp. | ASTM D 2794 1993                   |
| Erichsen cupping        | ≥ 5 mm      | DIN EN ISO 1520 2007-11            |
| Buchholz hardness       | ≥ 80        | DIN EN ISO 2815 2003-10 (Anhang A) |

### Corrosion tests

|  |  |                           |
|--|--|---------------------------|
| Condensation water test,<br>500-1000h* | No infiltration, no blisters.<br>*depending on pretreatment  | DIN EN ISO 6270-2 2018-04 |
| Natural salt spray test,<br>500-1000h* | No infiltration, no blisters.<br>*depending on pretreatment. | DIN EN ISO 9227 2017-07   |

### Chemical tests

|                   |   |
|-------------------|---|
| Acids and alkalis | Good resistance to many dilute acids and alkalis. |
| Organic solvents  | Limited resistance to organic solvents.           |



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