





Technical data sheet

# IGP-DURA®mix 3305A-T0

Silk-matte thin-film powder coating with smooth finish in a wide range of colors.



## **Characteristics**

- Silk matte
- Smooth finish
- Uni colors
- Indoor quality
- Thin film



# **Powder properties**

Particle size: < 3.94 mil Solids: > 99 %

Density: 10.85 lb/gal- 13.35 lb/galSuitability for storage: min. 24 months at  $\leq$  77 °F

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:

#### Aluminum

- Chromating according to DIN EN 12487
- Pre-anodization
- Chrome-free pretreatment according to GSB International and QUALICOAT specifications

#### Steel

- Zinc phosphating
- Iron phospating

## Galvanized 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 aluminum substrates / galvanized 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**

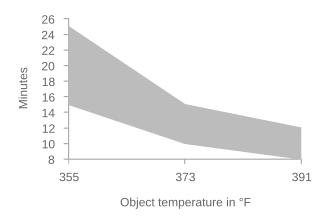
All commercially available electrostatic systems, both corona and tribo charge systems. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

#### Recommended film thickness

1.97 mil - 2.36 mil

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>
356 °F	15 minutes	25 minutes
374 °F	10 minutes	15 minutes
392 °F	8 minutes	12 minutes

In order to determine ideal curing conditions, we recommend practical trials with the object in question 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, 0.5 mm
Tested shades: RAL 9010

Film thickness: 1.97 mil - 2.36 mil Object temperature: 374 °F, 10 min.

#### **Appearance**

Gloss level 45-55 R'/60° DIN EN ISO 2813 2015-02

#### Mechanical tests

Cross-cut adhesion test Mandrel bending test Impact test Erichsen cupping Buchholz hardness	Gt 0 ≤ 5 mm ≥ 10 inchp. ≥ 5 mm ≥ 80	DIN EN ISO 2409 2020-12 DIN EN ISO 1519 2011 ASTM D 2794 1993 DIN EN ISO 1520 2007-11 DIN EN ISO 2815 2003-10
Corrosion tests		
Condensation water test, 500-1000h*	No infiltration, no blisters. *depending on pretreatment	DIN EN ISO 6270-2 2018-04
Natural salt spray test, 500-1000h	No infiltration, no blisters. *depending on pretreatment.	DIN EN ISO 9227 2017-07
Chemical tests		
Säuren und Laugen	Good resistance to many dilute acids and alkalis.	

Limited resistance to organic

solvents.



# More information

Organische Lösemittel

### **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 informa obligatory and does not exempt you from carrying out your own tests. Application, use and 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 comprehe management measures available at: <b>igp-powder.com</b>	ensive risk