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IGP Powder Coatings TDS IGP-DURA®mix 3303E-A1 240424 v1.2 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
IGP Powder Coatings TDS IGP-DURA®mix 3303E-A1 240424 v1.2
Technical data sheet
IGP-DURA®mix 3303E-A1
Matte, elegant powder coating with a large variety of special effects such as thin-coat solutions.
Characteristics
 Matte Smooth finish Pearl mica Mica Indoor quality
Powder properties
Particle size: Solids: Density: Suitability for storage:

< 100 µm > 99 % 1.3 kg/l-1.6 kg/l min. 24 months at ≤ 25 °C in an unopened original container Color tones: RAL Metallic and individual metallic 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 phospating
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.

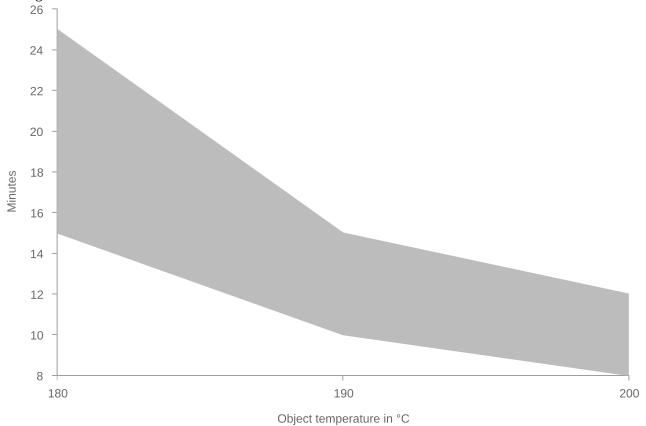
Recommended film thickness

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 Object **t** min **t** max 180 °C 15 minutes 25 minutes 190 °C 10 minutes 15 minutes

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 recovered powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum. Processing instruction VR201.1 must be observed.



Film properties

Tested on Substrate: Steel, 0.5mm Film thickness: 60 µm - 80 µm Object temperature:

190 °C, 10 min. Appearance Gloss level 25-35 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 10 inchp. ASTM D 2794 1993 Erichsen cupping \geq 5 mm DIN EN ISO 1520 2007-11 **Buchholz** hardness > 80 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 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. Technical Information IGP-TI 106 must also be observed when dealing with pearl mica effects. 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.