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IGP Powder Coatings TDS IGP-DURA®mix 3902E-D7 240424 v1.1 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 3902E-D7 240424 v1.1
Technical data sheet
IGP-DURA®mix 3902E-D7
Matt, ultra-durable powder coating with a smooth finish, ideal for interior applications with challenging design requirements.
Characteristics
 Matte Smooth finish Pearl mica
 Indoor quality Abrasion resistant
Powder properties
Particle size: Solids:

Density:

Suitability for storage: < 3.94 mil > 99 % 10.85 lb/gal-13.35 lb/gal min. 12 months at $\le 77 \text{ °F}$ in an unopened original container Color tones: 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: 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
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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 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.

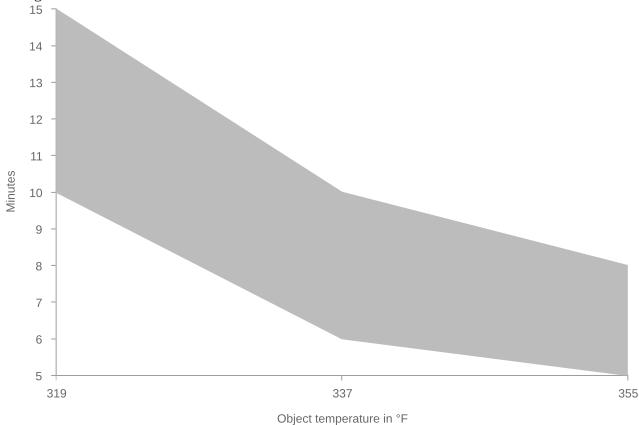
Recommended film thickness

2.36 mil - 3.15 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** min **t** max 320 °F 10 minutes 15 minutes 338 °F 6 minutes 10 minutes 356 °F 5 minutes 8 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. Processing instruction VR 201.1 must be observed.



Film properties

Tested on Substrate: Steel, 0.5 mm Film thickness: 2.36 mil - 3.15 mil Object temperature: 320 °F, 10 min.

Mechanical tests

Cross-cut adhesion test

Gt 0

DIN EN ISO 2409 2020-12

Mandrel bending test

 $\leq 5 \text{ mm}$

DIN EN ISO 1519 2011

Impact test

 \geq 10 inchp.

ASTM D 2794 1993

Erichsen cupping

 $\geq 5 \text{ mm}$

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



More information

Packaging

20 kg cardboard box with inserted antistatic PE liner

400 kg cardboard container with antistatic PE-liner

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

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.