



Technical data sheet

IGP-RAPID®complete 8763E-A1

Matt, highly reactive and weather-resistant powder coating on a polyester resin base, specially developed for temperature-sensitive substrates.



Characteristics

- Matte
- Natural smooth
- Pearl mica
- Industrial outdoor quality



Powder properties

Particle size:	< 3.94 mil
Solids:	> 99 %
Density:	10.85 lb/gal-13.35 lb/gal
Suitability for storage:	min. 6 months at ≤ 59 °F min. 12 months at ≤ 41 °F min. 24 months at ≤ -4 °F in an unopened original container
Color tones:	RAL Metallic and individual metallic colors on request



Processing

Pre-treatment

Precoated metal should be degreased and sanded to ensure intercoat adhesion. The suitability of the substrate and pretreatment method used is generally to be tested by the coater in advance with appropriate test methods. The minimum requirement 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

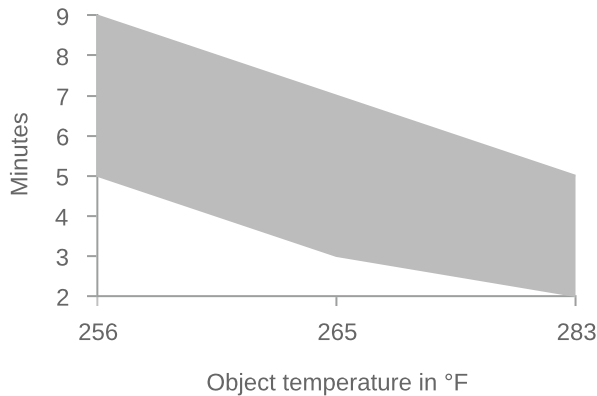
All conventional electrostatic systems with corona charging. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

Recommended film thickness

3.15 mil - 4.72 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}
257 °F	5 minutes	9 minutes
266 °F	3 minutes	7 minutes
284 °F	2 minutes	5 minutes

Due to the limited thermal conductivity, the use of infrared (electric / gas catalytic) or combined convectional / infrared ovens is recommended. In order to determine ideal curing conditions, we recommend practical trials with the object in question and curing oven. The curing conditions must be carefully controlled. Powder coatings cured outside the curing window may show deficiencies in the film flexibility. Our technical customer service will advise you.

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 214 & VR 201.1 must be observed.



Film properties

Tested on

Substrate: Coil-coated galvanized steel
Film thickness: 3.15 mil - 4.72 mil
Object temperature: 266 °F, 3 min.

Appearance

Gloss level 20-30 R'/60° DIN EN ISO 2813 2015-02

Mechanical tests

Cross-cut adhesion test ≤ 1 DIN EN ISO 2409 2020-12

Weathering tests

1 year Florida, 5° south > 50 % residual gloss DIN EN ISO 2810 2021-01
QUV/SE-B-313, 300h > 50 % residual gloss DIN EN ISO 16474-3 2014-03
Xenon-arc lamps, 1000h > 50 % residual gloss DIN EN ISO 16474-2 2014-03

Corrosion tests

Condensation water test, 1000h	No infiltration, no blisters	DIN EN ISO 6270-2 2018-04
Natural salt spray test, 1000h	No infiltration, no blisters	DIN EN ISO 9227 2017-07

Chemical tests

Aceton-Test	2N Level 2	IGP AA341.58
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More information

Packaging

20 kg cardboard box with inserted antistatic PE liner

Overcoating suitability

Preliminary tests are mandatory for overcoating painted surfaces.

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.

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