



33

IGP Powder Coatings

TDS IGP-DURA®mix 334MA-C0|240424|v1.3

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**

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Technical data sheet

IGP-DURA®*mix* 334MA-C0

Matte powder coating with a variable fine texture and electrostatically discharging properties (ESD).



Characteristics

- Deep matte
- Var. fine texture
- Uni colors
- Indoor quality
- Electric. discharging



Powder properties

Particle size:

Solids:

Density:

Suitability for storage:

< 3.94 mil
> 99 %
10.85 lb/gal-13.35 lb/gal
min. 24 months at ≤ 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 phosphating

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

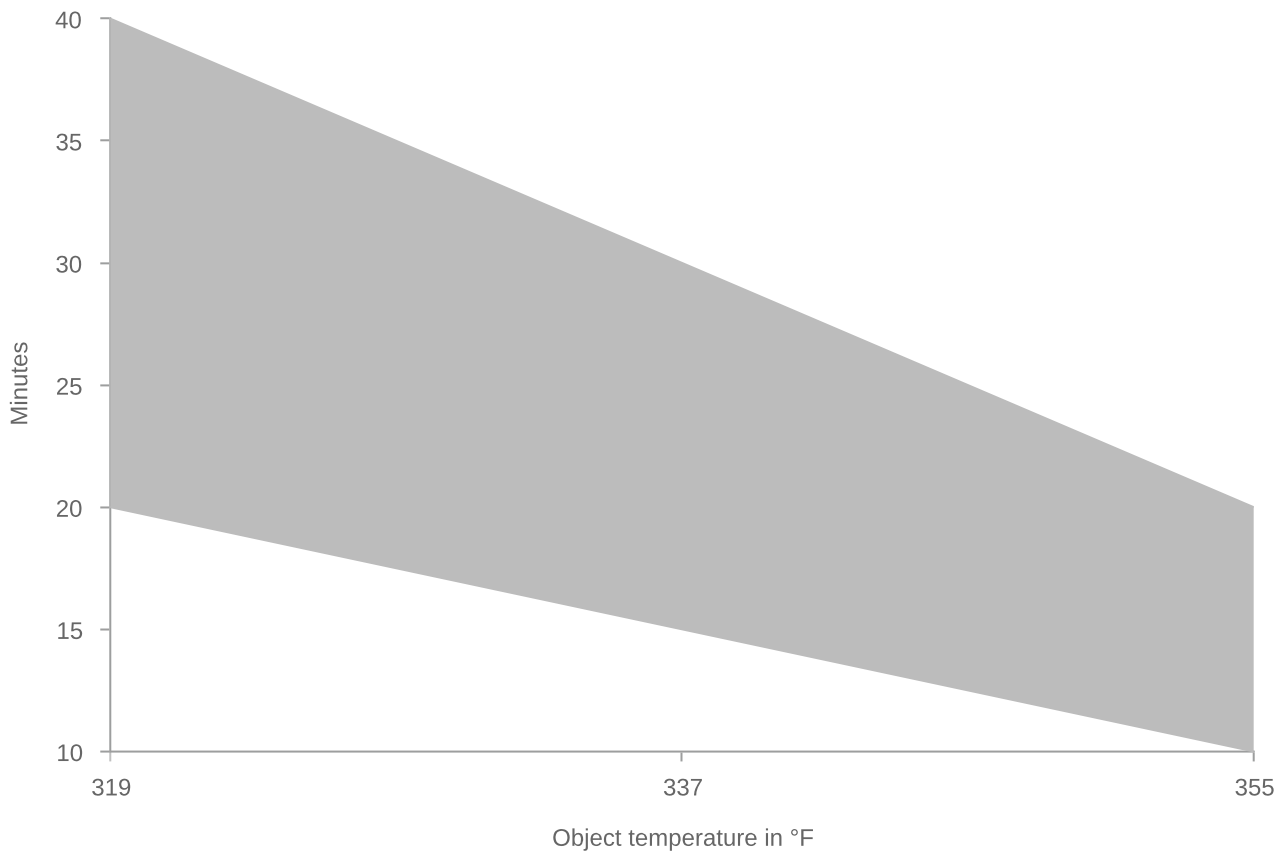
All commercially available electrostatic systems, both corona and tribo charge systems. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

Recommended film thickness

2.36 mil - 3.15 mil

With higher layers, the powder coating becomes insulating.

Curing conditions



T Object	t min	t max
320 °F	20 minutes	40 minutes
338 °F	15 minutes	30 minutes
356 °F	10 minutes	20 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 214 must be observed.



Film properties

Tested on

Substrate:

Steel, 0.5 mm

Film thickness:

2.36 mil - 3.15 mil

Object temperature:

338 °F, 15 min.

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
≥ 3 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
Acids and alkalis
Good resistance to many dilute acids and alkalis.
Organic solvents
Limited resistance to organic solvents.
Additional properties
Long term heat resistance
> 100°C allmähliche Vergilbung
electrostatic discharge resistance
TI 101
DIN EN 61340-2-3 2017-05



More 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.