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IGP Powder Coatings

TDS IGP-DURA®guard 3203A-A0|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**

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Technical data sheet

## IGP-DURA®*guard* 3203A-A0

Matte, chemically highly resistant anti-graffiti powder coating with a smooth finish for interior applications.



### Characteristics

- Matte
- Smooth finish
- Uni colors
- Indoor quality
- Antigraffiti



### Powder properties

Particle size:

Solids:

Density:

Suitability for storage:

< 3.94 mil

> 99 %

10.85 lb/gal-13.35 lb/gal

min. 18 months at  $\leq 77$  °F

in an unopened original container

Color tones:

RAL and NCS-S shades, individual colors on request

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## 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.

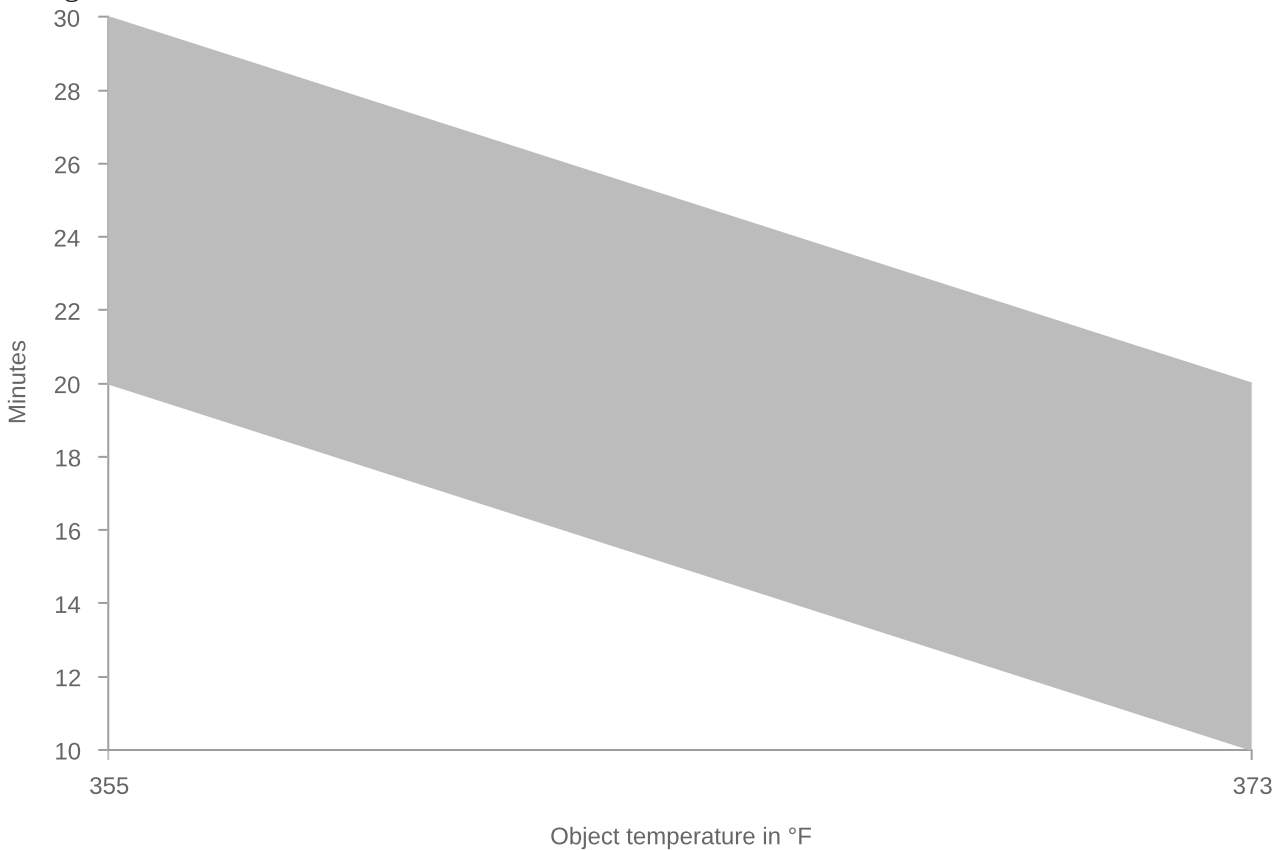
### Recommended film thickness

2.36 mil - 3.15 mil

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
356 °F	20 minutes	30 minutes
374 °F	10 minutes	20 minutes

In order to determine ideal curing conditions, we recommend practical trials with the object in question and curing oven. Due to a few e-caprolactam emissions during the curing process it is necessary to take care for a good ventilation to comply with the permitted occupational exposure limits and concentrations.

#### 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:

Aluminum, 0.8 mm, AQT 36

Film thickness:

2.36 mil - 3.15 mil

Object temperature:

374 °F, 15 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 / Tape test

≤ 5 mm

DIN EN ISO 1519 2011

Impact test / Tape test

≥ 10 inchp.

ASTM D 2794 1993

Erichsen cupping / Tape Test

≥ 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

Acids and alkalis

Very good resistance to many dilute acids and alkalis.

Organic solvents

Outstanding resistance to organic solvents

Cleaning

Easy2clean properties allow efficient removal of contamination by commercially available cleaning agents and/or disinfectants



## 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

Overcoating suitability

For overcoating anti-graffiti powder coatings, sanding and preliminary tests are mandatory.

Printing and glueing

Preliminary tests are mandatory.

#### 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.

#### Graffiti removal

The following procedure should be observed when removing graffiti: - The contact time of the graffiti with the surface must be kept as brief as possible - Preliminary tests to select a suitable graffiti remover - Thorough rinsing of the cleaned areas with water - The contact time of the graffiti remover with the surface must be kept as brief as possible IGP recommendation: - Elite 007 graffiti remover from Crous Chemicals GmbH - Socostript T4210P from Socomore - Bonderite S-ST 1302 and Bonderite C-MC 400 from Henkel AG - or a different non-abrasive cleaner

#### 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.