





app.print.technical_data_sheet.title

IGP-DURA® guard 321MA-G0

Matte, highly chemically resistant, biocide-enriched anti-graffiti powder coating with fine structure for interior application.



- Matte
- Fine texture
- Uni, without effect
- Indoor quality
- Contains biocides
- Anti-Graffiti



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Protected by Sanitized®





app.print.technical_data_sheet.powder_properties.title

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app.print.technical_data_sheet.powderap90p6rties.solid:

app.print.technical_data_sheet.powde1_3okgplefitiekglensity:

app.print.technical_data_sheet.powderpprppettties.lstooraalgeleataits.lbeliettypowder_properties.storage_suitability.prefix

18 months

app.print.technical_data_sheet.powder_properties.storage_suitability.at

25°C

in an unopened original container

app.print.technical_data_sheet.powdeR_durapdritieSe6lshataseindividual colors on request



app.print.technical_data_sheet.processing.title

app.print.technical_data_sheet.processing.substrates

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).

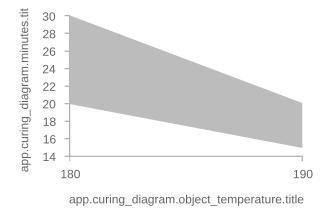
app.print.technical_data_sheet.processing.coating_devices

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.

app.print.technical_data_sheet.processing.recommended_film_thickness $60~\mu m$ - $80~\mu m$

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.

app.print.technical_data_sheet.processing.curing_condition_recommendation



app.print.technical_data_sheet.processing.curing_condit 180 °C 190 °C

In order to determine ideal curing conditions, we recommend practical trials with the respective object and curing oven.

Due to 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 concentrations.

app.print.technical_data_sheet.processing.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 VR214 must be observed.



app.print.technical_data_sheet.film_properties.title

app.print.technical_data_sheet.film_properties.tested_on.title

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app.print.technical_data_sheet.film_properties.mechanical_tests

Cross-cut adhesion testGt 0DIN EN ISO 2409 2020-12Mandrel bending test / Tape test≤ 8 mmDIN EN ISO 1519 2011Impact test / Tape test≥ 10 inchp.ASTM D 2794 1993Erichsen cupping / Tape test≥ 3 mmDIN EN ISO 1520 2007-11

Buchholz hardness ≥ 80 DIN EN ISO 2815 2003-10 (Anhang A)

app.print.technical_data_sheet.film_properties.corrosion_tests

Condensation water test, No infiltration, no blisters. DIN EN ISO 6270-2 2018-04

500-1000h* *depending on pretreatment

Natural salt spray test, No infiltration, no blisters. DIN EN ISO 9227 2017-07

500-1000h* *depending on pretreatment.

app.print.technical_data_sheet.film_properties.chemical_tests

Acids and alkalis Very good resistance to many

dilute acids and alkalis.

Organic solvents Outstanding resistance to

organic solvents

Cleaning IGP-DURAclean® properties

allow efficient removal of

contamination by commercially

available cleaning agents and/or disinfectants



$app.print.technical_data_sheet.more_information.title$

app.print.technical_data_sheet.packaging.title

20 kg cardboard box with inserted antistatic PE liner 400 kg cardboard container with 20 antistatic PE-liners each 20kg 500 kg cardboard container with 25 antistatic PE-liners each 20kg

app.print.technical_data_sheet.processing.overcoating

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

app.print.technical_data_sheet.processing.printing_and_glueing

Preliminary tests are mandatory.

app.print.technical_data_sheet.more_information.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.

$app.print.technical_data_sheet.film_properties.graffiti_removal$

The following procedure should be observed when removing grafitti:

- The contact time of the gaffiti 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 grafitti remover from Crous Chemicals GmbH
- Socostrip T4210P from Socomore
- Bonderite S-ST 1302 and Bonderite C-MC 400 from Henkel AG
- or a different non-abrasive cleaner

$app.print.technical_data_sheet.more_information.paint_removal_and_disposal$

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.

app.print.technical_data_sheet.infobox