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IGP Powder Coatings TDS IGP-HWFclassic 591TC-A1 LivingSurfaces 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
IGP Powder Coatings TDS IGP-HWFclassic 591TC-A1 LivingSurfaces 240424 v1.3
Technical data sheet
IGP-HWFclassic 591TC-A1 LivingSurfaces
Super-durable, unicolored speckled coating powder for fine-textured and vibrant surfaces.
Characteristics
 Deep matte Fine texture Spotted effect Super durable façade quality, 3 years Florida > 50% residual gloss more robust & pliable
Material approvals
• Qualicoat Nr. P-1173, class 2

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: Due to the limited volume of highly weather-resistant pigments, the product portfolio only has a small amount of different shades in accordance with the special IGP color range.
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
Galvanized steel
 Zinc phosphating Chrome (III) passivation Chromating according to DIN EN 12487
For improved correction protection for applications on steel / galvanized steel, the use of correction

For improved corrosion protection for applications on steel / galvanized steel, the use of corrosion protection primer IGP-KORROPRIMER 10 or IGP-KORROPRIMER 60 is recommended. 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

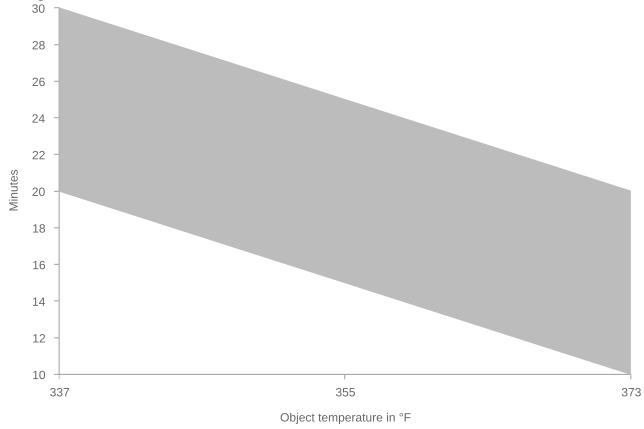
All conventional electrostatic systems with corona charging. For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

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 338 °F 20 minutes 30 minutes 356 °F 15 minutes 25 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.

Application

Due to the unique particle size distribution, the product enables the possibility of stucco surfaces. Application guideline VR213 "IGP-LIVINGSURFAVCES" must be observed.

Reclaimability

Due to the unique particle size distribution, the product enables the possibility of stucco surfaces. Application guideline VR213 "IGP-LIVINGSURFAVCES" must be observed.



Film properties

Tested on

Substrate:

Aluminum (AlMg1), 0.8 mm chromium-free

Film thickness:

2.36 mil - 3.15 mil

Object temperature:

356 °F, 15 min.

Appearance

Gloss level

1-35 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

 $\leq 5 \text{ mm}$

DIN EN ISO 1519 2011

Impact test / Tape test

 \geq 20 inchp.

ASTM D 2794 1993

Erichsen cupping / Tape Test

 $\geq 5 \text{ mm}$

DIN EN ISO 1520 2007-11

Buchholz hardness

 ≥ 80

DIN EN ISO 2815 2003-10

Weathering tests

3 years Florida, 5° south

> 50 % residual gloss

DIN EN ISO 2810 2021-01

Xenon-arc lamps, 1000h, 90%

> 90 % residual gloss

DIN EN ISO 16474-2 2014-03

Corrosion tests

Acetic acid salt spray test, 1000h

No infiltration, no blisters

DIN EN ISO 9227 2017-07

Condensation water test, 1000h

No infiltration, no blisters

DIN EN ISO 6270-2 2018-04

Chemical tests

Mortar resistance

Easily removable after 24h with no residues.

ASTM D 3260 2001



More information

Packaging

20 kg cardboard box with inserted antistatic PE liner

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

400 kg cardboard container with antistatic PE-liner

Overcoating suitability

Overpainting LivingSurfaces

Printing and glueing

Preliminary tests are mandatory for printing and glueing of painted surfaces.

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.