



Technical data sheet

IGP-HWFclassic 592SE-A1 Living Surfaces

Silk gloss, mica effect containing powder coating with a wavy, coarse texture based on saturated polyester. Super durable, favorable minimum curing conditions of 20' 170°C.



Characteristics

- Silk gloss
- Coarse texture
- Pearl mica
- Super durable facade quality,
3 years Florida > 50% residual gloss



Powder properties

| | |
|--------------------------|--|
| Particle size: | < 100 µm |
| Solids: | > 99 % |
| Density: | 1.3 kg/l-1.6 kg/l |
| Suitability for storage: | min. 18 months at ≤ 25 °C 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 colour 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:

Aluminium

- Chromating according to DIN EN 12487
- Pre-anodization
- Chrome-free pretreatment according to GSB International and QUALICOAT specifications

Steel

- Zinc phosphating

Galvanised steel

- Zinc phosphating
- Chrome (III) passivation
- Chromating according to DIN EN 12487

For improved corrosion protection for applications on steel / galvanised 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 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).

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.

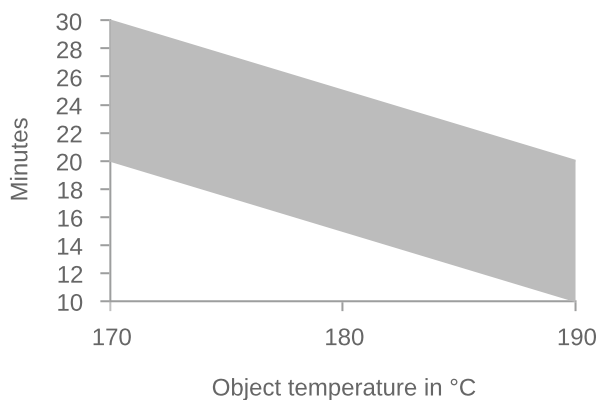
Recommended film thickness

120 µm - 170 µm

A homogeneous coating result with textured paints or colour or article-specific differences in hiding power may require higher Film thicknesses. The corresponding processing guidelines must be observed.

For a preliminary calculation of the required powder coating quantity, the required Film thickness must be determined for each specific article.

Curing conditions



| T Object | t min | t max |
|-----------------|-------------------|-------------------|
| 170 °C | 20 minutes | 30 minutes |
| 180 °C | 15 minutes | 25 minutes |
| 190 °C | 10 minutes | 20 minutes |

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

Application

VR202 Processing guideline for coarse structure and hammer tone effects.

Reclaimability

Processing guideline VR202



Film properties

Tested on

| | |
|---------------------|-------------------------------------|
| Substrate: | Aluminum (AlMg1), 0.8 mm chrom-free |
| Film thickness: | 80 µm - 100 µm |
| Object temperature: | 180 °C, 15 min. |

Appearance

| | | |
|-------------|--------------|-------------------------|
| Gloss level | 25-55 R'/60° | DIN EN ISO 2813 2015-02 |
|-------------|--------------|-------------------------|

Mechanical tests

| | | |
|----------------------------------|-------------|------------------------------------|
| Cross-cut adhesion test | Gt 0 | DIN EN ISO 2409 2020-12 |
| Erichsen cupping / Tape test | ≥ 5 mm | DIN EN ISO 1520 2007-11 |
| Impact test / Tape test | ≥ 20 inchp. | ASTM D 2794 1993 |
| Mandrel bending test / Tape test | ≤ 5 mm | DIN EN ISO 1519 2011 |
| Buchholz hardness | ≥ 80 | DIN EN ISO 2815 2003-10 (Anhang A) |

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 |
|-------------------|--|------------------|



Further information

Packaging

- 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

Overcoating suitability

see VR213 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. 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**