



app.print.technical\_data\_sheet.title

## IGP-HWFclassic 5907U-S1

Super-durable, effect containing and more scratch-resistant coating powder for silk gloss surfaces, produced with IGP-Effectives® technology.



### app.print.technical\_data\_sheet.characteristics

- Silk gloss
- Smooth finish
- IGP-Effectives®
- Super durable facade quality, 3 years Florida > 50% residual gloss
- Increased scratch resistance
- Clean Effect



- GSB 173 n - Florida 3
- Qualicoat Nr. P-1535, class 2



### app.print.technical\_data\_sheet.powder\_properties.title

app.print.technical\_data\_sheet.powder\_properties.particle\_size: 100 µm  
 app.print.technical\_data\_sheet.powder\_properties.solid: 99.8%  
 app.print.technical\_data\_sheet.powder\_properties.gldensity: 1.3 kg/l  
 app.print.technical\_data\_sheet.powder\_properties.storage\_suitability.prefix: 24 months  
 app.print.technical\_data\_sheet.powder\_properties.storage\_suitability.at: 25 °C  
 app.print.technical\_data\_sheet.powder\_properties.storage\_suitability.in an unopened original container  
 app.print.technical\_data\_sheet.powder\_properties.binding: Ad-Metals and binders  
 app.print.technical\_data\_sheet.powder\_properties.special metallic 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

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).

#### **app.print.technical\_data\_sheet.processing.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.

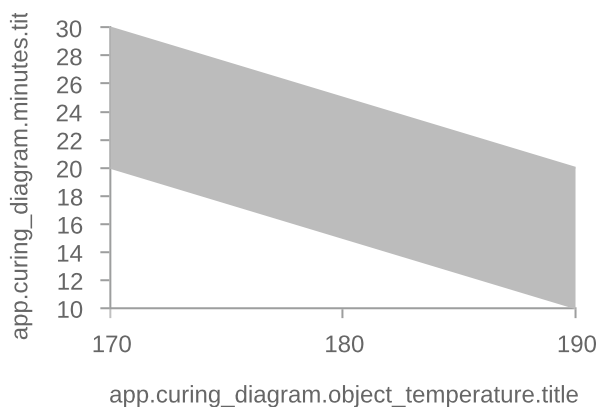
#### **app.print.technical\_data\_sheet.processing.recommended\_film\_thickness**

60 µm - 80 µm

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\_conditi**

170 °C

**180 °C**

190 °C

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

#### **app.print.technical\_data\_sheet.processing.reclaimability**

Due to the high bonding rate of powder grain and effect agent, the powder can be charged much more uniformly compared to other effect finishing processes. As a result, the powder can be processed with a significantly increased recovery rate. Please also refer to the IGP processing guideline for IGP-Effectives® powder coatings: VR201.2



## app.print.technical\_data\_sheet.film\_properties.title

### app.print.technical\_data\_sheet.film\_properties.tested\_on.title

app.print.technical\_data\_sheet.film\_properties.film\_thickness:  
app.print.technical\_data\_sheet.film\_properties.subject\_temperature:

### app.print.technical\_data\_sheet.film\_properties.appearance

app.print.technical\_data\_sheet.film\_properties.gloss\_level DIN EN ISO 2813 2015-02

### app.print.technical\_data\_sheet.film\_properties.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	≥ 20 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
Robustness according to	≥ 50 %	IGP AA341.62
Martindale, residual gloss_50%		

### app.print.technical\_data\_sheet.film\_properties.weathering\_tests

3 years Florida, 5° south	> 50 %	DIN EN ISO 2810 2021-01
	app.print.technical_data_sheet.film_properties.residual_gloss	
Xenon-arc lamps, 1000h, 90%	> 90 %	DIN EN ISO 16474-2 2014-03
	app.print.technical_data_sheet.film_properties.residual_gloss	
QUV-SE-B-313, 600h	> 50 %	DIN EN ISO 16474-3 2014-03
	app.print.technical_data_sheet.film_properties.residual_gloss	

### app.print.technical\_data\_sheet.film\_properties.corrosion\_tests

Condensation water test, 1000h	No infiltration, no blisters	DIN EN ISO 6270-2 2018-04
Acetic acid salt spray test, 1000h	No infiltration, no blisters	DIN EN ISO 9227 2017-07

### app.print.technical\_data\_sheet.film\_properties.chemical\_tests

Mortar resistance	Easily removable after 24h with no residues.	ASTM D 3260 2001
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## app.print.technical\_data\_sheet.more\_information.title

### app.print.technical\_data\_sheet.processing.overcoating

Preliminary tests are mandatory for overcoating painted surfaces.

### app.print.technical\_data\_sheet.processing.printing\_and\_glueing

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

### 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.more\_information.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.

**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