



Technical data sheet

## IGP-DURA®one 5607A-A7

Silk gloss low-temperature powder coating with attractive flow and good weather stability based on saturated polyester and declaration-free hardener.



### Characteristics

- Silk gloss
- Smooth flow
- Uni colours
- Standard facade quality,  
1 year Florida > 50% residual gloss
- lower cure



### Material approvals

- GSB 173 j - Florida 1
- Part of QSC-System
- Qualicoat Nr. P-1855, class 1
- Qualicoat Nr. P-1956, class 1
- QSC ST2 PE-0015/IGP-KORROPRIMER 1001
- QSC ST2 PE-0016/IGP-KORROPRIMER 6007
- QSC HD2 PE-0017/IGP-KORROPRIMER 1001
- QSC HD2 PE-0018/IGP-KORROPRIMER 6007
- QSC MS1 PE-0074/IGP-KORROPRIMER 1001
- QSC HD1 PE-0183



### Powder properties

Particle size:	< 100 µm
Solids:	> 99 %
Density:	1.3 kg/l-1.6 kg/l
Suitability for storage:	min. 24 months at ≤ 25 °C in an unopened original container
Color tones:	RAL and NCS-S shades, individual colors on request



## 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, IGP-Korroprimer 18 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 commercially available electrostatic systems, both corona and tribo charge systems.

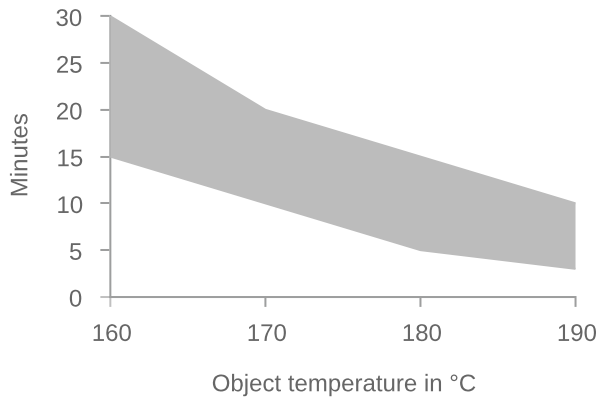
For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

### Recommended film thickness

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.

## Curing conditions



T <sub>Object</sub>	t <sub>min</sub>	t <sub>max</sub>
160 °C	15 minutes	30 minutes
<b>170 °C</b>	<b>10 minutes</b>	<b>20 minutes</b>
180 °C	5 minutes	15 minutes
190 °C	3 minutes	10 minutes

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

For further information on gloss & overbake stability, please refer to IFO report 42420. Please contact your IGP representative.

## 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 (AlMg1), 0.8 mm chrom-free
Tested colours:	RAL 9010, 5010, 3005
Film thickness:	60 µm - 80 µm
Object temperature:	170 °C, 10 min.

### Appearance

Gloss level	65-85 R'/60°	DIN EN ISO 2813 2015-02
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### Mechanical tests

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

### Weathering

Xenon-arc lamps, 1000h	> 50 % residual gloss	DIN EN ISO 16474-2 2014-03
QUV/SE-B-313, 300h	> 50 % residual gloss	DIN EN ISO 16474-3 2014-03
1 year Florida, 5° south	> 50 % residual gloss	DIN EN ISO 2810 2021-01

### 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

## Chemical tests

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Mortar resistance

Easily removable after 24h with no residues.

ASTM D 3260 2001

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## Further information

### Packaging

20 kg cardboard box with inserted antistatic PE liner

### Overcoating

Preliminary tests are mandatory for overcoating painted surfaces.

### 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.

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](http://igp-powder.com)