



Technical data sheet

IGP-ANTIGRAFFITI 492SE-A1

Coarse-textured effect powder coating for exterior use with outstanding anti-graffiti properties and excellent resistance to chemicals.



Characteristics

- Silk gloss
- Coarse texture
- Pearl mica
- Industrial outdoor quality
- Anti-Graffiti



Powder properties

Particle size:	< 100 µm
Solids:	> 99 %
Density:	1.3 kg/l-1.6 kg/l
Suitability for storage:	min. 12 months at ≤ 25 °C in an unopened original container
Color tones:	RAL Metallic and individual metallic 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 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.

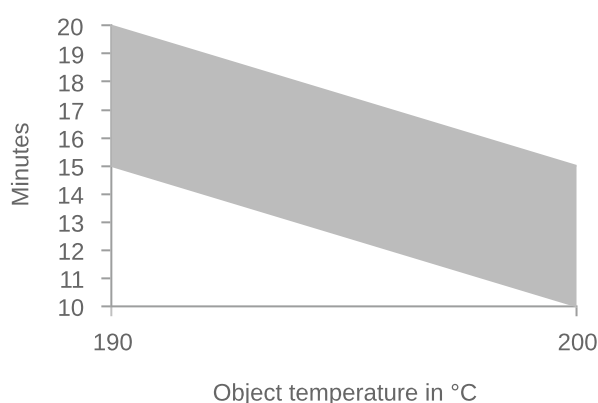
Recommended film thickness

80 µm - 100 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}
190 °C	15 minutes	20 minutes
200 °C	10 minutes	15 minutes

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

Application

For an optimal coating and surface quality, please follow the recommendations set out in the VR202 processing guidelines.

Reclaimability

To prevent contamination, special care must be taken to ensure that the entire coating plant is thoroughly cleaned before loading a coarse-textured powder, as well as when switching back to other powder grades.

As a general rule, uni coarse-textured powder coatings are suitable for reclaiming. Effect-based coarse-textured powder coatings can also be processed with a certain proportion of reclaimed powder, subject to prior testing.

Please refer to the effect category on the container label and the processing guideline VR202.

Compatibility

Contamination with other powder coatings may result in a drop of the gloss level, cratering, loss of mechanical properties, etc. Devices and coating systems must be thoroughly cleaned before and after using the powder.



Film properties

Tested on

Substrate:	Aluminum (AlMg1), 0.8 mm chrom-free
Film thickness:	80 µm - 100 µm
Object temperature:	190 °C, 15 min.

Mechanical tests

Cross-cut adhesion test	Gt 0	DIN EN ISO 2409 2020-12
Mandrel bending test	≤ 12 mm	DIN EN ISO 1519 2011
Impact test	≥ 10 inchp.	ASTM D 2794 1993
Erichsen cupping	≥ 2 mm	DIN EN ISO 1520 2007-11
Buchholz hardness	≥ 80	DIN EN ISO 2815 2003-10 (Anhang A)

Weathering tests

QUV-SE-B-313, 200h	> 50 % residual gloss	DIN EN ISO 16474-3 2014-03
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Corrosion tests

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

Chemical tests

Cleaning	IGP-DURAclean® properties allow efficient removal of contamination by commercially available cleaning agents and/or disinfectants
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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

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.

Graffiti removal

The following procedure should be observed when removing graffiti:

- The contact time of the graffiti 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 graffiti 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

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](https://www.igp-powder.com)