

TECHNICAL DATA SHEET

IGP-DURA[®]face 5809 White Line



Weather-resistant facade quality

IGP

POWDER
COATINGS

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A DOLD GROUP company

IGP-DURA[®]face 5809 White Line is developed for white and significantly brightened colour shades. It is a weather-resistant, gloss coating system.

Product Description

IGP-DURA[®]face White Line which is part of the series IGP-DURA[®]face 5809 is a specially developed product based on saturated polyester resin, the corresponding hardener plus special heat and light resistance.

- Excellent light and weather-resistance
- Impact resistant surface with excellent flow
- Good elasticity and abrasion resistance

Application

- Facade elements, window profiles
- Outdoor equipment
- Whiteware
- Garden and camping furniture
- Machine housings
- Lights

Product Range

Surface aspects:

5809A White Line	Smooth finish, glossy
5809E White Line	Smooth finish, gloss with pearl mica effect

Shades:

RAL 9001 – Cream / RAL 9002 – Grey White / RAL 9003 – Signal White
RAL 9010 – Pure White / RAL 9016 – Traffic White
RAL 9018 – Papyrus White / RAL 1013 – Oyster White

Furthermore special additional shades from colour systems (e.g. NCS/ Pantone/RAL), which can be depicted in a corresponding colour chart.

Powder Specification

Particle size	< 100 µm
Solids	> 99%
Density according to shade	1.4–1.6 kg/l
Suitability for storage	12 months*
Storage temperature	< 25°C

*in an unopened original container

Curing Conditions

Time and temperature combinations that result in an ideal cross-linking of the coat are displayed.

Object temperature	Retention time at object temperature	
	Minimum	Maximum
170°C	15 min.	30 min.
180°C	10 min.	20 min.
190°C	8 min.	15 min.

In order to determine ideal curing conditions, we recommend always performing practical trials that are adapted to the respective object and the stoving oven. Our Technical Customer Service Department is happy to help you.

Film Properties

To determine the following data, 5809A White Line was applied as follows:

- Aluminium sheet (AlMg1) 0.8 mm, chromatised
- Shades RAL 9010, 9003, 9016
- Coating thickness 60 - 80 µm
- Object temperature 170 °C, 15 min

Gloss level, DIN EN ISO 2813

5809A, E White Line > 85 R'/60°

Mechanical tests

Cross-cut adhesion test, DIN EN ISO 2409	Gt 0
Mandrel bending test, DIN EN ISO 1519	< 5 mm
Impact penetration, ASTM D2794	> 2.5 Nm

Weathering

Long-term exposure, 1 year Florida, 5° south, DIN EN ISO 2810	> 50% residual gloss
Accelerated weathering test, QUV/SE-B- 313, 300h, DIN EN ISO 16474-3 /ASTM G-53-88:	> 50% residual gloss
Accelerated weathering test, 1000h DIN EN ISO 16474-2	> 50% residual gloss

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Chemical tests

1000h condensate water test*, DIN EN ISO 6270-2:	No infiltration, No blisters
1000h salt spray test*, DIN EN ISO 9227:	No infiltration, No blisters
Mortar resistance, ASTM D 3260:	Easily removable after 24h with no residues.

* depending on pre-treatment

Processing Information

Pre-treatment:

The substrate to be coated must be free of oxidation products, or residue from scale, oil, grease or release agents.

Aluminium substrate:

Chrome-free pre-treatment:	Preferred approved systems from GSB and Qualicoat
Chromatising:	DIN EN 12487
Pre-anodisation:	Also available

Steel substrate:

Zinc or iron (Fe) phosphating
Galvanised sheet metal: Chromatising in accordance with DIN EN 12487

For improved corrosion protection for applications on steel / galvanised steel, the use of corrosion protection primer IGP-KORROPRIMER 10 is recommended. The suitability of the pre-treatment 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 intended for architectural applications is performing a boil test / pressure cooker test with a subsequent crosscut adhesion and pull-off test. We refer to the guidelines of the GSB certifications and Qualicoat. For further information: see also our special leaflet on pre-treatment (IGP-TI 100).

Coating equipment

All commercially available electrostatic systems, both Corona and Tribo charge systems. Exceptions are Pearl Mica effects which must be processed with Corona charge.

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.

Recyclability

Small proportions of recycled powder should be added, automatically if possible, to the fresh powder. For Pearl Mica effects, refer also to processing instruction VR 201.

Cleaning

Coated parts to be cleaned in compliance with the regulations RAL-GZ 632 or SZFF 61.01. For pearl-mica effect, the Technical Information IGP-TI 106 must also be observed.

Stripping and Subsequent Use Phase

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.

Packing

- Carton with inserted antistatic PE liner, content 20 kg

Material Approval

Qualicoat no. P-1200, class 1

Safety information:

Article-specific safety data sheet and comprehensive risk management measures available at: www.igp-powder.com

Note:

This application-related consulting is provided to the best of knowledge. However, it only represents non-binding information and does not release you from the need to perform your own tests. Application, use and processing of the products take place outside our ability to supervise and are therefore exclusively your own responsibility.