

IGP-HWF 3001

Sustainable facade protection
by a high weather resistant
powder coating



With the innovative
IGP-DURA[®]clean effect



Powderful Solutions.

IGP-HWF 3001 – highly weather-resistant facade protection for lasting aesthetic appeal

High performance for high levels of pollution

The functionality, elegance and aesthetic appeal of a facade are very short-lived without protection and maintenance. This applies particularly to facade designs subjected to high levels of pollution. High levels of sunshine, extreme variations in climate and caustic pollutant emissions can all have a considerable effect on aesthetically appealing facades.

The IGP-HWF 3001 powder coating system was developed especially to comprehensively protect painted surfaces against unfavourable weather conditions and environmental influences. Thanks to minimal adherence of dirt and a high level of gloss and color stability, your building's envelope will remain protected for a long time to come.

Excellent weathering stability

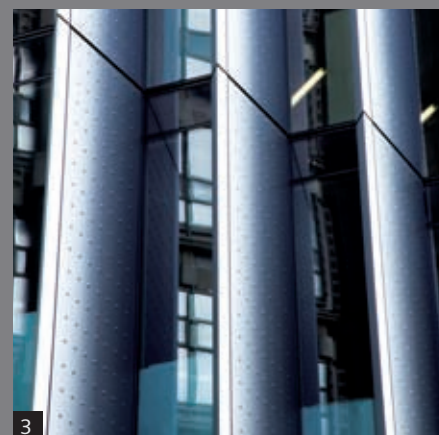
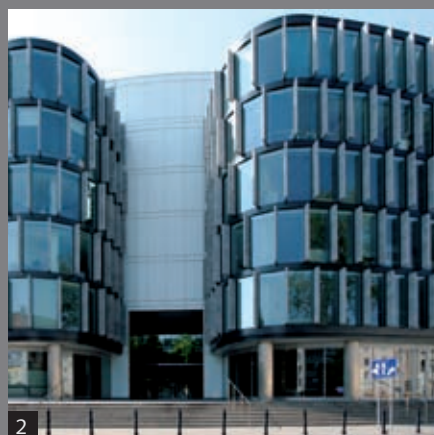
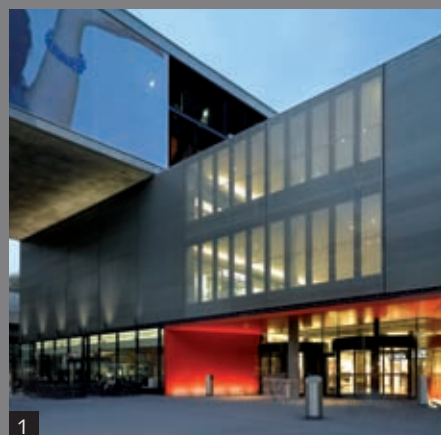
Compared with standard facade powder coatings, IGP-HWF 3001 has three times the weathering stability. This protects your facade against chalking and color changes.

In addition to RAL and NCS colors, our lab team will also help you to realise your own individual color ideas, and match them with the high requirements in terms of weather-resistance. The product quality we offer, meets the GSB "Master" and/or Qualicoat "Class 2" standards.

IGP-DURA[®]clean effect for reduced dirt adhesion



Both weathering and surface cleaning leave traces on facades over time. Why not put your trust in the unique protection offered by IGP-DURA[®]clean. It repels dirt and is resistant to weathering and cleaning. As a result, cleaning intervals can be extended, saving maintenance costs. The environment benefits too, because excellent cleaning results can be achieved with just a little water and a sponge – with no cleaning agents required.



Captions

Jakobsturm, Basel (front page)

Sihlcity, Zurich (1)

Metropol, Warsaw (2)

The Willis Building, London (3)

Consistently high color and gloss durability confirmed in weathering and long-term tests

Available colors

IGP-HWF 3001 is available in an extended range of HWF colors with various gloss levels, in plain colors, in mica and with metallic effects, and as a transparent powder coating.

- RAL and NCS-S colors
- Pearl mica colors
- Mica iron oxide effects
- Various colors developed from samples

Optimised ageing

A special bonding agent system protects the surface against chalking, and UV-resistant pigments provide improved color retention.

The IGP-DURA[®]clean effect makes the coated surface even more water-repellent, thus guaranteeing minimal dirt adhesion, effectively preventing build-ups of residual dirt and particle residues. The surface displays what it is supposed to display, and for longer.

Florida weathering

Whereas standard facade powder coatings may exhibit major gloss and color differences from the initial sample, the weathering values of IGP-HWF 3001 remain constant over a period three times as the Florida weathering test.

The Florida time values correspond to between three and four times the exposure period in a central European climate.

WOM weathering

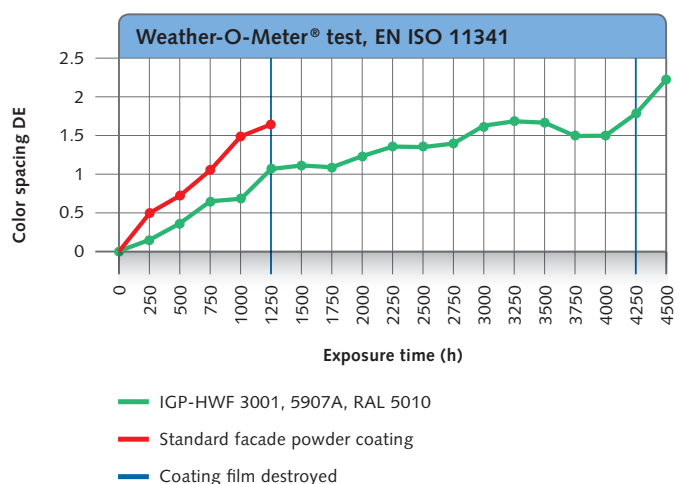
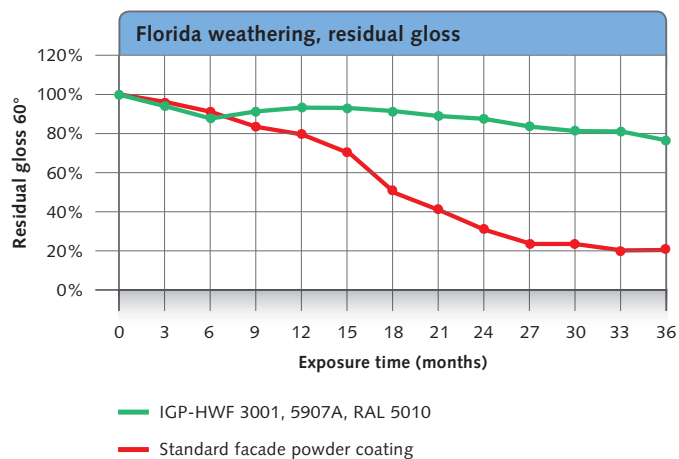
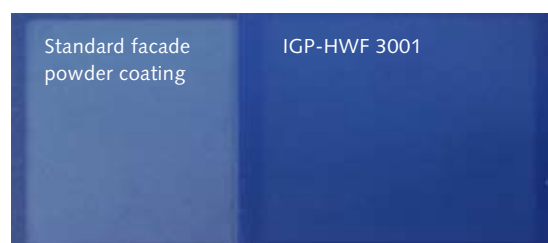
The highly weather-resistant IGP-HWF 3001 system has enhanced the positive properties of conventional powder coatings. Its improved weathering properties are also demonstrated in the accelerated weathering in the Weather-O-Meter[®] (WOM) test.

IGP-HWF 3001 product range

Surface aspect qualities	
IGP-HWF 3001 5909	gloss
IGP-HWF 3001 5907	silk gloss
IGP-HWF 3001 5903	matt
IGP-HWF 3001 591M	fine texture, matt

The surfaces are available in a smooth flow variation as well as in the fine structure 591M

Color change RAL 5010 – 700-hour QUV-B, DIN 53384



IGP-HWF 3001 – at a glance

Application	Product series	Target values
Object temperatures	5909/5907/591M	20 – 30 Min. 180 °C 15 – 25 Min. 190 °C 10 – 20 Min. 200 °C
	5903	15 – 25 Min. 190 °C 10 – 20 Min. 200 °C
Layer thickness	5909/5907/5903/591M	60 – 90 µm ISO 2360
Gloss level	5909	> 85, R'/60° ISO 2813/60°
	5907	65 – 85, R'/60°
	5903	25 – 35, R'/60°
	591M	5 – 25, R'/60°

Testing methods	Testing standards	Results
Mechanical values		
Adhesion	ISO 2409, Tape AAMA 2604-05, 7.4.1.1	GT 0
Erichsen cupping	ISO 1520, Tape	> 5 mm
Mandrel bending test	ISO 1519, Tape	< 5 mm
Hemispherical impact test	ASTM D 2794, Tape AAMA 2604-05, 7.5	2.5 Nm
Abrasion test	ASTM D 4060 AAMA 2604-05, 7.6	approx. 40 mg
Mechanical machining	Qualicoat-Test 2.18	With sharpened tools: no tearing or flaking when sawing, milling, drilling etc.
Corrosion tests		
Acetic acid salt-spray test Neutral salt-spray test	ISO 9227 AASS AAMA 2604-05, 7.8.2	After 1000 hours: < 1 mm infiltration, no bubbles
Water condensate exposure test	DIN EN ISO 6270-2 AT ASTM D2247, ASTM D 714 AAMA 2604-05, 7.8.1	After 1000 hours: < 1 mm infiltration, no bubbles
Mortar resistance	ASTM C207c/D3260 AAMA 2604-05, 7.7.2	Can be removed easily and without leaving any residue after 24 hours
Weather-resistance		
Florida test	ISO 2810, 5° S	3 years
Color change		max. 5 ΔE (CIELab)
Loss of gloss		max. 50 %
Chalking resistance		8–10, according ASTM, D4214

Pre-treatment of coated substrate: aluminium sheets, AlMg1 sheet; 0.8 mm

Pre-treatment acc. to DIN 50939 or DIN EN 12487; yellow or green chromatising

Your facade: aesthetic and protected – even after 10 years and more

Exterior facades are exposed every day to the growing influence of the environment and weathering. Safeguarding the aesthetic effect of a stylishly designed architectural property places high demands on the composition of coatings and requires reliable long-term testing. This is where IGP-HWF 3001 sets standards, simultaneously offering the best possible protection and a wide range of design options. The intelligent IGP-DURA®*clean* effect reduces dirt adhesion and lowers maintenance costs.

Surface aspects

- Good coverage properties
- Pearl and iron mica effects
- High mortar resistance
- High abrasion-resistance to ASTM D 4060

IGP-DURA®*clean* effect

- Easy to clean, with reduced dirt adhesion
- Low maintenance costs
- Value-enhancing surface

IGP safety and tested quality

A complete guarantee chain for the quality powders from the production up to the coating process (certified coaters) is supervised by GSB and Qualicoat for the architectural sector.

The performance results of IGP-HWF 3001 go over and beyond the set requirements.

- Eco-friendly production
- Long-term, object-related guarantee on gloss and color stability according to the regulations of GSB "Master" and/or Qualicoat "Class 2"



Economical

- Very good coverage
- Savings as a result of highly consistent powder recovery, including effect powders

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