

IGP-HWF *classic*

Highly weather-resistant
façade protection
Durable – robust – energy-efficient

**IGP****POWDER
COATINGS**

IGP-HWF*classic* – ROBUST AESTHETICS FOR YOUR FAÇADE

Utmost weather resistance

We are experiencing a fast-changing environment in terms of climate: damp cool periods are interchanged with hot dry periods. A stress test of all facade surfaces! Since the 1970's, central Europe has recorded an increase in UV radiation by a total of 24%. These changes affect the selection of today's coating systems for buildings and infrastructures.

- Place your trust in a tried and tested highly weather-resistant powder coating system!
- Place your trust in dependability and permanent aesthetics with IGP-HWF*classic*.

Increased scratch resistance

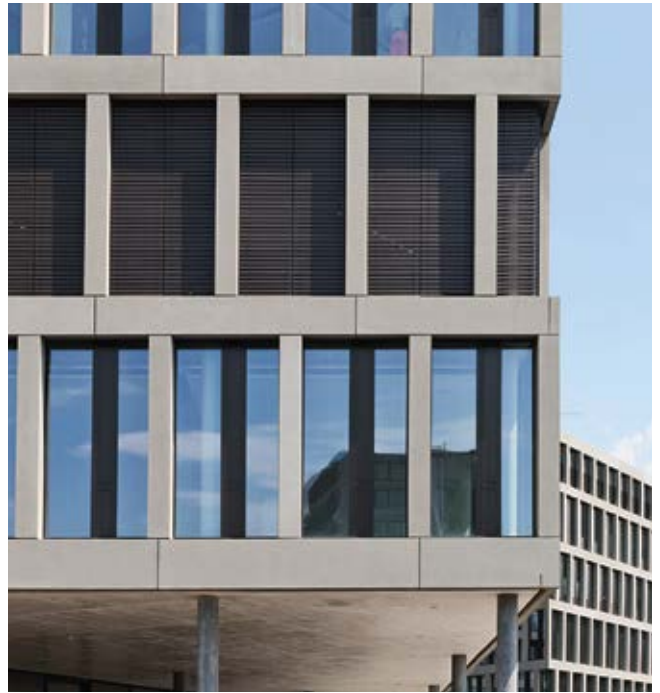
Since autumn 2018, smooth finish products from the HWF-*classic* 59 Series have been available in both matt and silk gloss versions with a robust surface and increased scratch resistance. For you, this means increased reliability when dealing with coated surfaces during assembly and transport, and increased protection against tarnishing residues left behind after thorough or upkeep cleaning.

IGP-DURA[®]*clean* effect

The process of freeing facades and construction component surfaces of abrasive dust types, algae and fungal spores as well as reactive atmospheric gases should be carried out according to instructions. The unsurpassed DURA[®]*clean* effect ensures a minimum on dirt pickup and improved cleanability. Cleaning intervals and therefore also upkeep costs can be lowered significantly. The use of cleaning agents can be minimised, which also improves the environmental impact caused by chemical cleaners. So that the surface cleaning does not leave traces.

Green Building Label

By using non-toxic substances and lowering the standard curing temperature by 10–12 % in order to reduce the environmental impact of our powder coatings, IGP-HWF*classic* satisfies the demands of the Green Building Label sustainability concept. Since 2014, IGP-HWF*classic* 5903 has been certified by the "Institut Bauen und Umwelt (IBU-D)" via an Environmental Product Declaration (EPD). IGP-HWF*classic* 5903 is also listed as a sustainable product group in the DGNB navigator (CODE W5ED9Z).



FHNW Campus, Brugg-Windisch



Andreaspark, Zurich



Europaallee, Zurich

DEPENDABLE IN TERMS OF SHADE AND GLOSS RETENTION – ROBUST IN TERMS OF CLEANING AND HANDLING

Florida weathering

In the hot, humid Florida climate, the certified highly weather-resistant powder coatings from the IGP-HWF*classic* line stand up to three times the weather stress compared to conventional weather-resistant facade coatings. All shades available in stock or customised customer-specified shades from the IGP-HWF*classic* line meet the quality requirements of the German Quality Association for the Individual Coating of Building Components (GSB) for the levels of "Master" and/or Qualicoat "class 2". After all, Florida is "at the centre of Europe"!

Quick-weathering

After extensive periods of exposure in Florida, a variety of quick-weathering tests continue to confirm the high quality of the tried and trusted IGP-HWF*classic* line. The adjacent image shows the stability of the highly weather resistant coating in terms of gloss stability compared to a conventional facade coating with weathering class 1, during Weather-O-Meter® (WOM) testing.

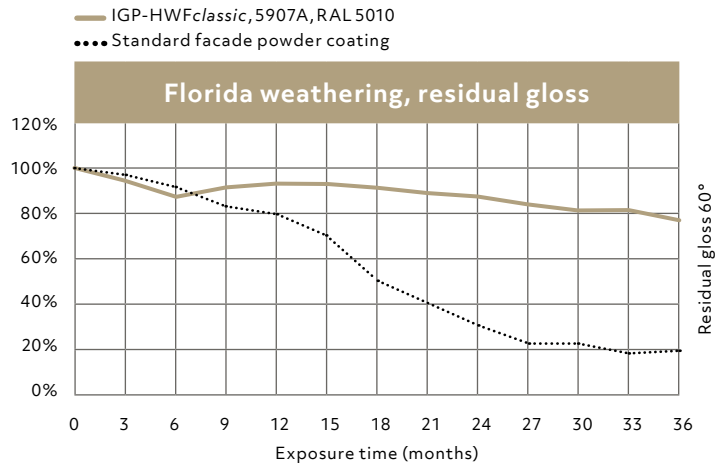
Curing benefits and process reliability

The use of reactive powder coatings requires a wide range of curing conditions and improved process reliability with regard to various application parameters. For both energy-efficient cross-linking at a low curing temperature (20 min/170°C) or short curing times with fast pumping speeds (10 min/190°C), IGP-HWF*classic* produces homogeneous and attractive coating results in terms of surface, gloss level and shade quality.

In stock shades

IGP-HWF*classic* is available in a highly weather-resistant assortment of shades with various gloss levels in solid shades, with pearl mica and metallic effects and as a transparent powder coating.

- RAL and NCS shades
- Pearl mica shades
- Iron mica effects
- A broad range of shade formulas based on a sample



IGP-HWF*classic*, 5907A, RAL 5010
 Standard facade powder coating
 Powder coating film is damaged

Discolouration with standard façade coating versus HWF*classic*.
 Shade change after 700 h QUV-B, DIN EN ISO 16474.



Scratch test using Martindale testing device. Minimal tracks measurable and visible after scratching.



IGP-HWF <i>classic</i> product range			
Qualities	Surface aspect		Material approval
IGP-HWF- <i>classic</i> 5907	Smooth finish	Silk gloss	GSB No. 173z, Qualicoat No. P-1535, AAMA* 2604-13
IGP-HWF- <i>classic</i> 5903	Smooth finish	Matt	GSB No. 173a, Qualicoat No. P-1531, AAMA* 2604-13
IGP-HWF- <i>classic</i> 591T	Fine structure	Deep matt	Qualicoat-No. P-1518, AAMA* 2604-13

*AAMA Rapport de test

IGP-HWF*classic* – OVERVIEW

Application	Product lines	Target values
Object temperatures	5903 / 5907 / 591T	20–30 min., 170 °C 15–25 min., 180 °C 10–20 min., 190 °C
Coating thickness	5907 / 5903 / 591T	60–90 µm, ISO 2360
Gloss level	5907	65–85, R'/60°
	5903	25–35, R'/60°
	591T	Deep matte
Electrostatics	5903 / 5907 / 591T	Corona

Test methods	Test norms	Achieved values
Mechanical values		
Martindale test	DIN CEN/TS 16611	Residual gloss after 32 cycles > 55%
Cross-cut adhesion test	DIN EN ISO 2409, tape test	GT 0
Erichsen cupping	DIN EN ISO 1520, tape test	> 5 mm
Mandrel bending test	DIN EN ISO 1519, tape test	< 5 mm
Impact testing	DIN EN ISO 6272, tape test	> 2,5 Nm
Abrasion test	ASTM D 4060	Approx. 40 mg
Mechanical processing	Qualicoat-Test 2.18	No cracking or chipping when sawing, milling, drilling etc.
Corrosive testing		
Acetic acid salt-spray test	DIN EN ISO 9227, AASS	After 1000 h: < 1 mm infiltration, no blisters
Water condensate exposure test	DIN EN ISO 6270-2 CH	After 1000 h: < 1 mm infiltration, no blisters
Mortar resistance	DIN EN ISO 12206-1 (Paragraph 5.9)	Effect and color changes in accordance with step 2 GSB guidelines
Weather resistance		
Florida test	ISO 2810, 5° SOUTH	3 years
No changes in shade		As per provisions from the GSB and Qualicoat quality associations
Loss of gloss		Max. 50%
Chalking resistance		Max. step 8, as per ASTM, D4214

Coated substrate: aluminium sheet, AlMg1 sheet; 0,8 mm, coating with 60 µm coating thickness. Pre-treatment as per DIN EN 12487, yellow and green chromatising, as well as alternative chromium-free and pre-anodising pre-treatments after self-testing.

IGP-HWF*classic* is multi-metal compatible. The requirements for coating other metals can be found in the technical data sheet as well as in the IGP TI 100 technical information.

IGP-HWF*classic* – BENEFIT FROM THE NEW-GENERATION POWDER COATING

For planners and metal workers

- Protection against climatic and environmental influences
- No shell misalignment with thermally insulated profiles
- Robustness for handling and installation
- Sample service and customised shade design

For the coater

- Energy efficiency and increased surface delivery rate from 20 min/170 °C
- Improved scratch resistance increases the material quality rate
- Excellent charging ability ensures highly efficient application
- Minimal picture frame effect, good edge coverage
- Good surface flow and uniform structure

For users and building owners

- The dirt-repelling properties extend the intervals between upkeep cleaning procedures
- With the IGP-DURAClean effect a verifiable easy-to-clean surface is given
- The film and pigment stability promotes the aesthetics and value of the real estate for decades
- Environmental product declaration to certify the environmental compatibility

If you have any questions regarding powder coating qualities, cleaning intervals or the impact of the cost of coating on the component costs, then request our IGP Quality Matrix.

For property in international climates and at locations with extreme UV radiation levels, we recommend the highly weather-resistant IGP-HWF*superior* product line.

IGP reliability and tested quality

The seamless warranty chain from manufacture through the coating application by a certified coating operation is monitored by the German Quality Association of coating quality within the architectural sector GSB and Qualicoat. The IGP-HWF*classic* product performance exceeds the German Quality Association requirements.

Upon request, IGP powder technology will give long-term object-specific warranties on the gloss and shade stability based on the GSB requirements for “Master” and/or Qualicoat “Class 2”.



Product tested and approved
for the quality trade-mark



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