IGP-HWF \textit{classic}

Highly weather-resistant façade protection
Durable – robust – energy-efficient
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 façade 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 façades 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).
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-HWFclassic 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-HWFclassic 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-HWFclassic 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-HWFclassic produces homogeneous and attractive coating results in terms of surface, gloss level and shade quality.

In stock shades
IGP-HWFclassic 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

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

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

<table>
<thead>
<tr>
<th>IGP-HWFclassic product range</th>
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<tr>
<td>Qualities</td>
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<tr>
<td>IGP-HWFclassic 5907</td>
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<tr>
<td>IGP-HWFclassic 5903</td>
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<tr>
<td>IGP-HWFclassic 591T</td>
</tr>
</tbody>
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*AAMA Rapport de test
### Application

| 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

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

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-HWFclassic – 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-HWFsuperior 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-HWFclassic 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”.

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.
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