IGP-HWF classic

Highly weather-resistant facade protection dependable – permanent – energy-efficient

170°C stoving options
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
- Increased surface efficiency due to higher powder reactivity or energy-efficient application at 20 min., 170 °C – always dependable!
- Good coverage and high chargeability
- Gloss stability with differing parameters
- Minimal picture frame effect, good edge coverage
- Reduced tendency for pin-holing with thicker layers
- 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”.

swiss quality
IGP-HWF<sub>classic</sub> –
LONG-LASTING AESTHETICS
FOR YOUR FACADE

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<sub>classic</sub>.

Green Building Label
The use of non-toxic substances and the benefit to the global warming potential by lowering stoving temperatures by 10–12% compared to conventional powder-coatings, IGP-HWF<sub>classic</sub> complies with the sustainability concept of the Green Building Label. In Europe, a new Construction Project Regulation (CPR) has been in effect since July of 2013. It requires the manufacturers of construction products to provide information on the environmental compatibility of their products for the entire lifespan of a building in the form of defined key figures. Starting in 2014, IGP-HWF<sub>classic</sub> 5903 will be certified by the Institut Bauen und Umwelt (IBU-D).

IGP-DURA<sup>®</sup>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<sup>®</sup>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.

Stoving benefit and process safety
With regard to the various coating parameters, the use of reactive powder coatings requires a comfortable range of stoving temperatures, and increased process safety. Whether there is a need for energy-efficient crosslinking at a low stoving temperature (20’, 170 °C), or short stoving times at fast conveyor speeds (10’, 190 °C), IGP will provide uniform and attractive coating results in terms of surface type, gloss level and shade nuance.
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 Qualicote “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.

Aging can be planned
A special bonding agent system protects the IGP-HWFclassic coating against chalking and loss of gloss for a period of decades. Carefully tested pigments with the highest possible level of weathering stability provide the optimised shade retention. Finely dispensed surface-active substances give the powder coating film its robustness for easy handling during installation and cleaning. The IGP-DURAclean effect significantly reduces the adherence of dirt particles to the powder-coated surface and prevents the accumulation of cleaner residue. The surface looks like it was intended to look.

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

The surfaces are available with a smooth finish and a 591T fine structure.
IGP-HWF<sup>classic</sup> – OVERVIEW

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<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>
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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<sup>classic</sup> 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.
POWDER COATING

BENEFIT FROM THE NEW-GENERATION IGP-HWF classic

Qualicoat “Class 2”.

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– Good surface flow and uniform structure
– Reduced tendency for pin-holing with thicker layers
– Minimal picture frame effect, good edge coverage
– Good coverage and high chargeability
– Energy-efficient application at 20 min., 170 °C – always dependable!
– Increased surface efficiency due to higher powder reactivity or
– For the coater
– Sample service and customised shade design
– Robustness for handling and installation
– No shell misalignment with thermally insulated profiles
– Protection against climatic and environmental influences
– For planners and metal workers

– Easy-to-clean surface is given
– Effort a verifiable easy-to-clean surface is given
– Clean
– Sample service and customised shade design
– Robustness for handling and installation
– No shell misalignment with thermally insulated profiles
– Protection against climatic and environmental influences
– For planners and metal workers

– Environmentally friendly and odorless
– Durable and resistant to weathering
– Low maintenance and long service life
– Good adhesion and compatibility with various substrates
– Low toxicity and non-flammable

– Trusted by professionals worldwide
– Versatile application options
– Sustainable and eco-friendly

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