

## IGP-DURA<sup>®</sup>face 5807

Surface-robust powder coating system  
for facade and metal construction



POWDER COATINGS.

# SCRATCHES IN THE COATING IMPAIR APPEARANCE AND FUNCTION

A scratch on the surface is not only a cosmetic fault but often has profound consequences. A scratch that penetrates too far into the coating can lead to a technical defect. The coating surface thereby loses its protective function and is subject to environmental influences.



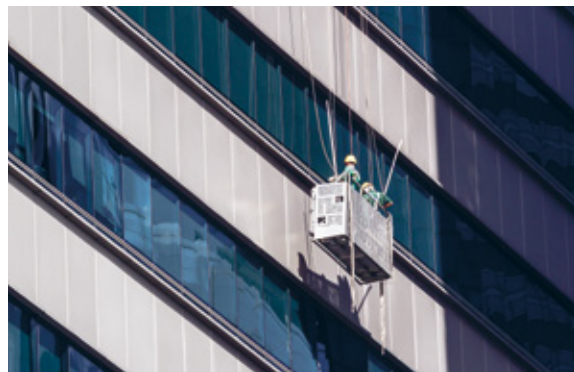
A scratch can easily occur in the working day of a coater, often before an object is finished.



The innovative coating formulation provides more handling safety during transport and assembly.



Robust surfaces are more durable in building site operations.



The robust resistance of perfect surfaces reduces scouring marks and the matting effect of abrasive dust.

## Film on Robust Surfaces



# INNOVATIVE CONCEPT MAKES POWDER COATINGS MORE ROBUST

In the life cycle of a coated object, there are many situations that could impair a perfect surface. Frequently even before the object has been delivered or put to use. So it's hardly surprising that coating companies and end customers desire increased surface safety and protection.

## The Innovation

In addition to weathering resistance and corrosion protection, scratch resistance is one of the most requested properties by our customers. With the new concept in coating formulation from IGP, the powder coatings are successfully furnished with greater resistance against foreign particles intruding into the surface – and also provide optimized gradient and film properties. The functionality and aesthetics of coated items are sustainably safeguarded.

## New Customer Benefits

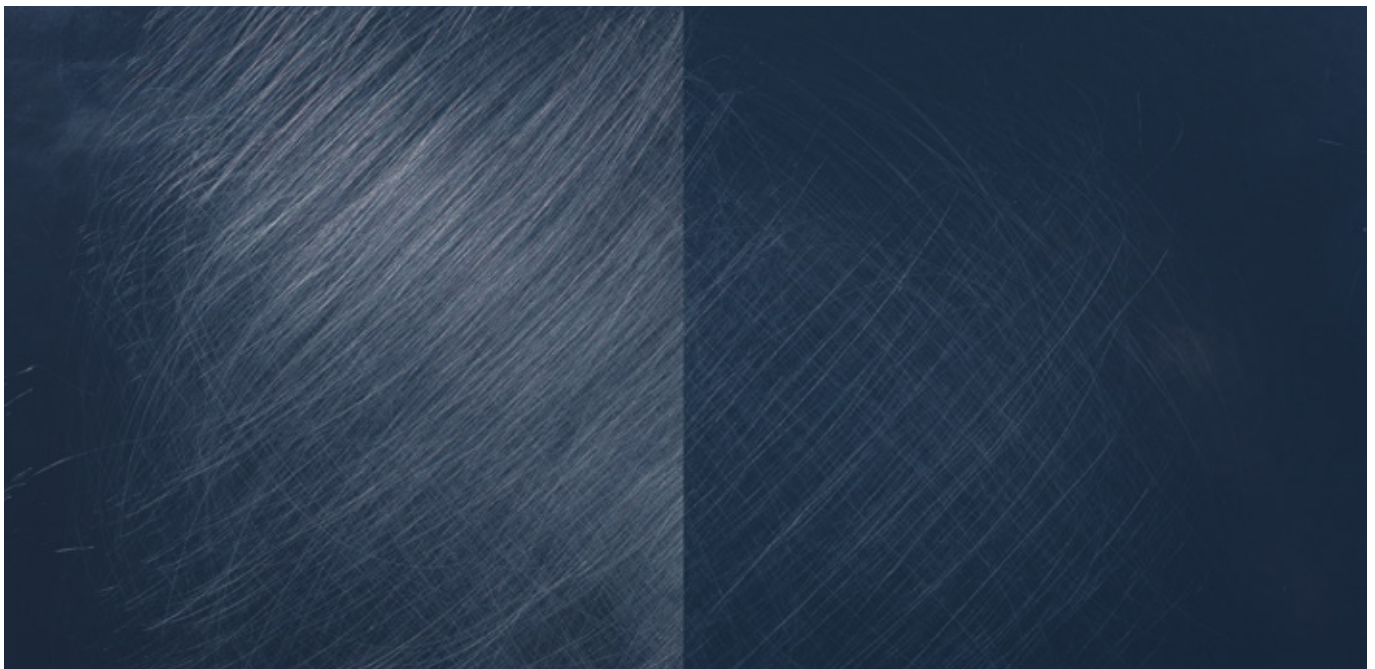
Integration of the “Robust Surfaces” film property delivers new advantages:

- More scratch-proof
- More abrasion-resistant
- Easier to clean
- Optimized gradient

## In Application

Robust powder coating films are predominantly in demand for facades and consumer goods. They lower the rejection rate after processing and assembly and increase safety for coaters and metal-working companies. For end customers, the product characteristics signify greater service ability and thus extended value conservation. Developed for diverse applications, the IGP-DURA<sup>®</sup>face 5807 silk gloss facade powder is equipped with the new property across the entire range of colours and products.

**Special test methods, such as the Martindale test, prove the difference:**



Up to date: Standard, polyester-based powder coating

New: IGP-DURA<sup>®</sup>face 5807 Type-S

# TECHNICAL AND ECONOMICAL SAFETY THANKS TO OPTIMAL COMBINATION

## Conscious material selection decision

A low environmental impact and a reduced need for grey energy are extremely important issues for us, even as early as the material selection stage for the powder coating formulation. IGP Pulvertechnik AG is in possession of an internationally-recognised environmental product declaration in accordance with DIN EN ISO 14025 as well as EN 15804 for the product group IGP-DURA<sup>®</sup>face 5807, which has also been tested on chromium-free pre-treatments. Consequently, quantifiable statements regarding the ecological quality of the products are available for the entire coating range for building labels such as LEED or DGNB.



## Economical and reliable application

Also with the new product formulation, the IGP-DURA<sup>®</sup>face 5807 facade-suitable powder coating system continues to offer the utmost in application reliability: The all-round coating powders exhibit excellent charging characteristics which, in combination with the high level of opacity of the IGP-DURA<sup>®</sup>face coating powder, ensure an economic initial application efficiency / high material yield. The advantageous over-curing stability permits the utilisation of a comfortable range of curing conditions and a colour-stable coating, even when dealing with heterogeneous components with various substrate thicknesses.

## Definitive test methods confirm scratch resistance

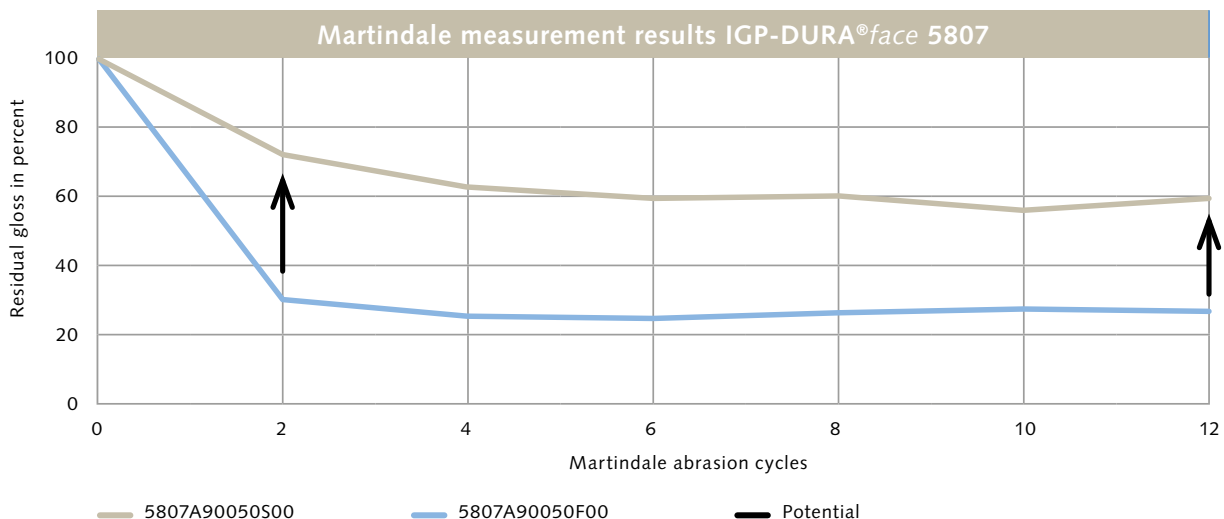
Various scratch tests prove that the robust coating exhibits far fewer and less severe scratches. One of these particularly true-to-life methods is called the Martindale test. It simulates the kind of multiple scratching caused by scouring.



Martindale test device



9-fold gloss measurement 60° in overlap area of the abrasion cycles.



# IGP-DURA<sup>®</sup>face 5807 – PRODUCT RANGE

## Robustness in harmony with aesthetics and weathering stability

The coating powders of the IGP-DURA<sup>®</sup>face 5807 product group exhibit all significant modern paint surface properties: flawless appearance, moisture and UV stability and now also excellent surface robustness. The significantly improved resistance of the innovative coating film ensures that the product surface is more robust against abrasive or parallel linear damage (multiple scratches). Transport damage caused by wear as well as assembly and cleaning marks are significantly minimised.

## Product range and labelling

All articles of the IGP-DURA<sup>®</sup>face 5807-A and 5807-E product groups are offered with the new product formulation for increased surface robustness. Practically all RAL shades and many NCS shades are available from stock.

Product Range and Approvals						
Product Group 5807	Surface Aspects	Aluminium			Steel	Galvanised Steel
		Qualicoat 1-coat	Qualicoat 2-coat	GSB 1-coat	Qualisteelcoat 2-coat C4H	Qualisteelcoat 2-coat C5IH
5807-A	Single colour without effects; smooth	P-0230	P-1165 with IGP-Primer 3007	173 u	PE-0015 and PE-0016	PE-0017 and PE-0018
5807-E	Pearl mica effects; smooth					

## IGP-DURA<sup>®</sup>face 5807

The products of the IGP-DURA<sup>®</sup>face 5807 product group with “increased scratch resistance” are labelled with an “S” in the 11<sup>th</sup> position of the article code. These articles can be mixed with the quality provided to date by IGP-DURA<sup>®</sup>face 5807, labelled with an “F,” without compromising on optical properties.

Technical Data		
Product Group 5807 Type-S		
Reflectometer value 60°	ISO 2813	75 ± 10 Gloss level
Range of curing conditions		Min. 15' 170°C; max. 25' 200°C
Weathering stability	Pursuant to GSB Standard Qualicoat class 1	Residual gloss ≥ 50% after 12 months in Florida. Assessment according to DIN 6174, tolerance specifications pursuant to GSB, Qualicoat
Surface robustness	Martindale test	Residual gloss ≥ 60% after 32 abrasion cycles (Martindale test device)
Cross-cut adhesion test	ISO 2409	2 mm cutting distance: 0, no delamination
Buchholz hardness	ISO 2815	Characteristic value ≥ 85
Mandrel bending test	ISO 1519	≤ 5 mm
Hemispherical impact test	ASTM D 2794	2.5 Nm; no fractures, no delamination
Moisture resistance	pursuant to GSB, Part VII-16	ΔL* ≤ 4
Acetic acid salt spray test	ISO 9227 AASS	1000h, infiltration at the cut ≤ 1 mm, no blisters
Kesternich test	ISO 3231	30 cycles, infiltration at the cut ≤ 1 mm, no blisters
Sealing agent adhesion	pursuant to GSB, Part VII-17	No delamination
Gas furnace suitability		Suitability for directly gas-heated as well as IR-heated furnaces must be tested under production conditions.

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