



# IGP-KORROPRIMER

Priming powder in 2-layer system with ultimate anti-corrosive effect.



**Powderful Solutions.**

# Corrosion – and what you can do about it



## How corrosion develops

DIN defines corrosion as “the destruction of metals by chemical or electrochemical reactions with their environment”. This “environment” can be the atmosphere, salt water or river water. The best-known example for corrosion is rusting iron. This is a complicated chemical reaction where iron interacts with oxygen and water to form iron hydroxide hydrate. This oxide is a solid which grows on the metal as a voluminous and porous coating as the reaction corrosion progresses and which impairs properties such as load-bearing capacity.

## Protection from corrosion

It is estimated that corrosion causes an annual damage going in the billions (approx. 3.5% of the gross national product). To avoid these effects and to protect steel and steel constructions, organic coating systems are applied. For these requirements, IGP offers an extraordinary and highly effective two-layer powder varnish coating system, consisting of a corrosion-retarding and adhesion-enhancing epoxy primer coat, the IGP-KORROPRIMER 1002, and a weather-proof and UV-resistant powder coating such as:

- IGP-DURA<sup>®</sup>face 52, 58, 80
- IGP-HWF 3001, highly weather-resistant
- IGP-DURA<sup>®</sup>cryl 40
- IGP-PFC 91 with “30-year weathering protection”

# Our solution for permanent protection



## IGP-KORROPRIMER 1002

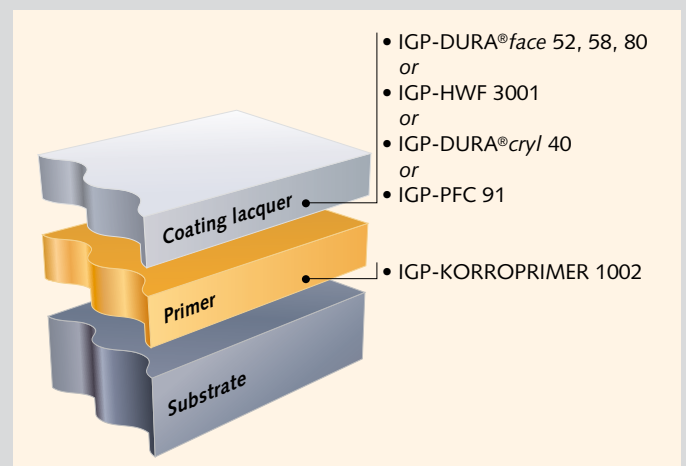
### Product benefits

- good mechanical properties
- excellent resistance to chemicals
- optimum adhesive power
- no toxic heavy metals (e.g. zinc)
- variable over-coating (coating powder, painting, wet varnishing)
- economical in terms of long service life and risk minimisation

### Applications

- blasted steel (e.g. posts, railings, handrails, parking meters)
- zinc-plated, chromatised steel (e.g. props of traffic guidance systems and anti-noise walls)
- zinc-plated, blasted to reduce moisture diffusion
- machined zincor sheet metal for protecting the non-zincplated spots and for covering the edges
- steel sheet (e.g. for occasional interior moisture exposure, as primer for skeleton structures)

## 2-layer structure for permanent protection



## Product description

**IGP-KORROPRIMER 1002** is an anti-corrosion coating powder based on epoxy resin, designed for iron and steel substrates. The product can also be used for priming chromatised aluminium to protect from filliform corrosion. This provides an additional and special protective effect for use in the vicinity of the sea and in aggressive industrial climates.

## Technical specifications

Colour shades: Two shades are available: light grey, RAL 7035 and battleship grey, RAL 7043. The surface is matt and smooth-running.



# Test and approval of IGP-KORROPRIMER

## Corrosion protection classification according to DIN EN ISO 12944 Part 6

Corrosiveness category	Duration of protection	Ambient examples, outside	Salt spray test ISO 7253	Condensate test ISO 6270
C2, low	short 2–5 years	Rural areas with low pollution levels		48 h
	medium 5–15 years			48 h
	long > 15 years			120 h
C3, moderate	short 2–5 years	Urban/industrial atmosphere, moderately polluted	120 h 240 h 480 h	48 h
	medium 5–15 years			120 h
	long > 15 years			240 h
C4, high	short 2–5 years	Industry, tunnels, traffic nodes	240 h 480 h 720 h	120 h
	medium 5–15 years			240 h
	long > 15 years			480 h
C5 I, very high (industry)	short 2–5 years	Industry, high humidity, aggressive atmosphere	480 h 720 h 1440 h	240 h
	medium 5–15 years			480 h
	long > 15 years			720 h
C5 M, very high (sea)	short 2–5 years	Coastal regions with high salt exposure	480 h 720 h 1440 h	240 h
	medium 5–15 years			480 h
	long > 15 years			720 h

The DIN EN ISO 12944 defines the duration, completion and assessment of salt spray and tropics tests. Following the tests, the coating system is classified according to its corrosion category and the expected protection range. **The IGP-2-layer powder varnish system on blasted steel substrate was awarded the corrosiveness category C5-I long and C5-M long.**

## Test results under DIN EN ISO 12944 Part 6

Tests	Evaluation before exposure	Condensate test, ISO 6270, 720 h	ISO 7253 salt spray test, 1440 h	ISO 3231 condensate test with SO <sub>2</sub> , 30 cycles
Cross-cut adhesion test, ISO 2409	0	1	0	0
Adhesive strength/ Mpa, ISO 4624	> 12,3	> 20,2	> 13,3	> 5,7
Degree of blistering, ISO 4628-2		0 – 1	0,8	0,3
Rust degree, ISO 4628-3		0	0	0
Fissure corrosion, mm		–	0,8	–
Crack formation, ISO 4628-4		0	0	0
Flaking, ISO 4628-5		0	0	0

Test results of the powder varnish system **IGP-KORROPRIMER 1002** as primer powder and **IGP-DURA<sup>®</sup>face 5807** as coating lacquer, coated on blasted structural steel St 52 (surface preparation grade SA 2<sup>1/2</sup>) and a total layer thickness of approx. 140 µm, DIN EN ISO 12944-6.

# IGP-KORROPRIMER – your guarantee of value retention



**General test certification standard recognised by the building authorities** issued by the IFO (Institute of Surface Technology GmbH) in respect of the durability of the corrosion protection afforded by powder varnish systems on structural steel. Certified to DIN EN ISO 12944 Part 6, corrosion category C5-I long and C5-M long.



**Institute for Corrosion Protection Dresden GmbH (IKS)**  
The powder coating system tested has been certified to DIN EN ISO 12944 Part 6, corrosion category C5-I long.



**Certified management system to ISO 9001 and ISO 14001**  
Following a certification audit, the Swiss Association for Quality and Management Systems (SQS) certifies that the quality system is fully in place and fit for purpose, that it is maintained and fully operational, and that it meets the standards set by the international norms.

## Captions

ENVIRAL® Oberflächenveredelung GmbH, View of production (1)  
Airport Düsseldorf, MB Gerstungen WICONA (2)  
IGP Pulvertechnik AG (3)



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