



# IGP-KORROPRIMER

Powder priming for durable  
corrosion protection  
of steel and aluminium



**Powderful Solutions.**

# IGP-KORROPRIMER – your guarantee of value retention



## **Institut für Oberflächentechnik GmbH (Institute for Surface Technology)**

- Corrosion protection testing  
for aluminium substrate
- > 2000 hours filiform corrosion test,  
DIN EN 3665
  - > 2000 hours salt spray test NSS and ESS,  
ISO 9227
  - > 30 cycles Kesternich test,  
DIN EN ISO 3231
  - > 2000 hours constant condensation water  
atmosphere test, DIN EN ISO 6270-2



**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**

- T-Mobile, Vienna (1)  
ENVIRAL® Oberflächenveredelung GmbH, View of production (2)  
T-Mobile, Vienna (3)  
IGP Pulvertechnik AG (4)



# The right priming powder for every application

## **Corrosion protection on steel and galvanised steel**

The benefits of the environmentally-friendly and highly durable powder coating systems of IGP in the corrosion protection segment of industry and the construction trade are confirmed by the new standards including DIN 55633 «coating materials, corrosion protection of steel structures through powder coating systems».

## **Corrosion protection and aluminium**

Corrosion is not just an issue with steel substrates. Under the influence of chlorides in combination with appropriate levels of air humidity it also affects coated aluminium substrates in the form of filiform corrosion. Conventional chromatising in accordance with DIN 50939 as the standard pre-treatment method is unable to prevent the occurrence of filiform corrosion to a sufficient degree.

## **Product description**

The 2-layer powder coating systems of IGP specifically protect the various substrates such as steel, galvanised steel and aluminium against the different forms of corrosion. The systems consist of the corrosion-retarding and adhesion-enhancing IGP-KORROPRIMER, anti-corrosive primer as the powder primer and a weather-proof, UV-resistant powder coating.

## **Protection on steel**

IGP-KORROPRIMER 10 is an anti-corrosion coating powder based on epoxy resin, designed for iron and steel substrates.

## **Protection for galvanised substrates**

IGP-KORROPRIMER 10 (V-Version) is also suitable for galvanised iron and steel substrates and is also optimised for exhalating substrates.

## **Protection for aluminium substrates**

The epoxy-resin-based IGP-KORROPRIMER 30 reduces the risk of filiform corrosion on aluminium substrates, enabling use in coastal areas even under increased exposure (emission).



# Our solution for permanent protection



## IGP-KORROPRIMER

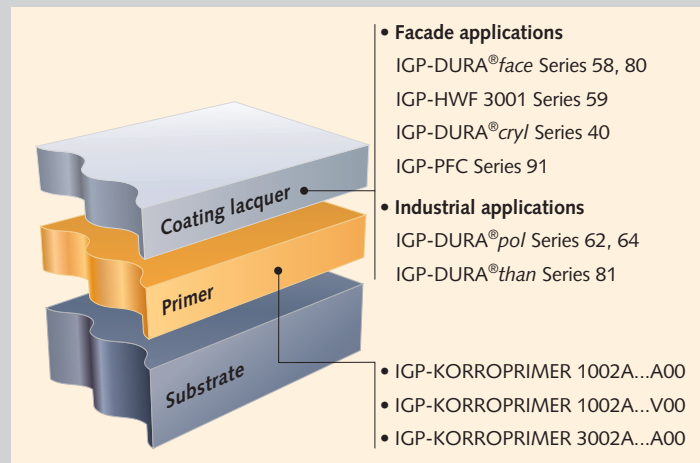
### Product benefits

- 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

### Applications

- Blasted steel
- Zinc-plated, chromatised steel
- Zinc-plated, blasted
- 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)
- **NEW:** Optimised for aluminium substrates
- **NEW:** Optimised for galvanised (exhalating) steel substrates (V-Version)

## 2-layer structure for permanent protection



## Product range and shades

The right solution for any substrate:

- IGP-KORROPRIMER 1002 A...A00 RAL 7035, RAL 7043
- IGP-KORROPRIMER 1002 A...V00 RAL 7047, RAL 7011
- IGP-KORROPRIMER 3002 A...A00 RAL 7042

The surface is matt with a smooth finish.

Please consult our technical documentation for the technical specifications and processing instructions.



# Approval and overview of IGP-KORROPRIMER

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

Corrosion categories	Duration of protection		Ambient examples, outside	Salt spray test ISO 7253	Condensation water 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	48 h
	medium	5–15 years		240 h	120 h
	long	> 15 years		480 h	240 h
C4, high	short	2–5 years	Industry, tunnels, traffic nodes	240 h	120 h
	medium	5–15 years		480 h	240 h
	long	> 15 years		720 h	480 h
C5 I, very high (industry)	short	2–5 years	Industry, high humidity, aggressive atmosphere	480 h	240 h
	medium	5–15 years		720 h	480 h
	long	> 15 years		1440 h	720 h
C5 M, very high (sea)	short	2–5 years	Coastal regions with high salt exposure	480 h	240 h
	medium	5–15 years		720 h	480 h
	long	> 15 years		1440 h	720 h

The DIN EN ISO 12944 defines the duration, completion and assessment of salt spray and tropic 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.

## Summary of suitable anti-corrosive primers by task and the recommended top coats

Corrosion categories	Substrate				
	Steel	Steel galvanised	Aluminium	Steel anti-graffiti	Aluminium anti-graffiti
Minor contamination C1/2, A11	–	Series 10(V)**	–	Series 10/10(V)*	Series 30*
Moderate contamination C3, A12	Series 10/10(V)**	Series 10(V)**	Series 30**	Series 10/10(V)*	Series 30*
Heavy contamination C4, A13	Series 10/10(V)*	Series 10(V)*	Series 30*	Series 10/10(V)*	Series 30*
Aggressive climate C5, A14	Series 10/10(V)*	Series 10(V)*	Series 30*	Series 10/10(V)*	Series 30*
Plus top coat	IGP-DURA <sup>®</sup> face (Product Series 58, 80) IGP-HWF 3001 (Product Series 59) IGP-PFC (Product Series 91) IGP-DURA <sup>®</sup> pol (Product Series 62, 64) IGP-DURA <sup>®</sup> than (Product Series 81)			IGP-DURA <sup>®</sup> cryl (Product-Series 40)	

\* mandatory \*\* recommended

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