

Pretreatment Chrome-free

High-end chemical technology

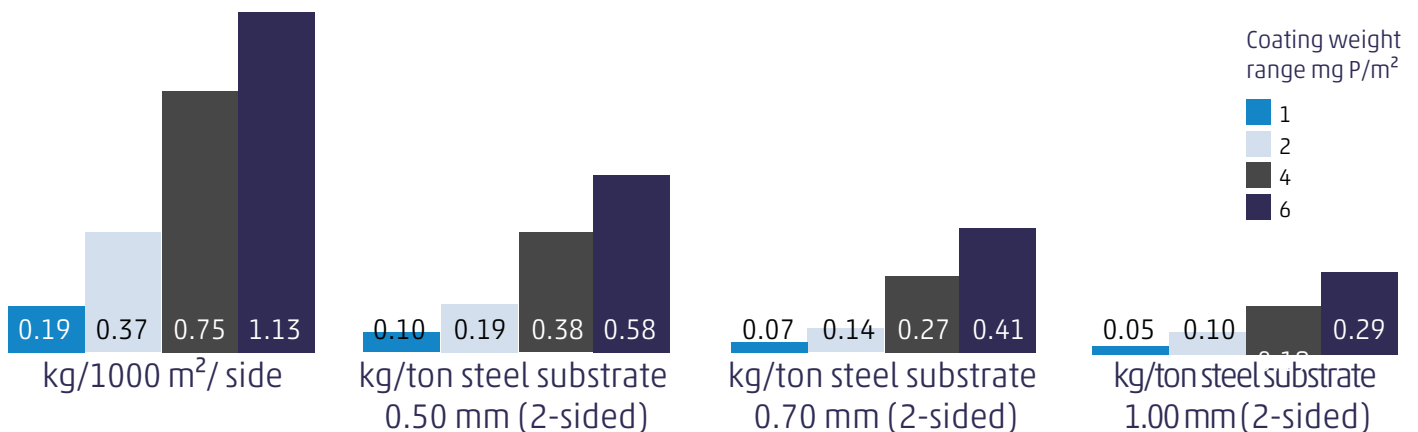
- Water-based, chrome-free pre-treatment product
- Developed to improve paint adhesion and bonding properties
- Designed for Zinc alloys (Z)
- Low consumption rates
- Provides excellent corrosion resistance comparable with conventional no-rinse chromate pre-treatments
- Excellent durable bonding of coil-coating paints and adhesive bonding properties
- ROHS and REACH compliant

About the product

PrimeCoat® Z107 is a water-based functional coating developed to improve the bonding properties of galvanized steel and other zinc-alloyed coatings.

PrimeCoat® Z107 is free of any kind of chromium and is ROHS and REACH compliant. Typical galvanized steel surfaces that will have advantage of the PrimeCoat® Z107 pretreatment are standard zinc, electrogalvanized zinc, galvalume, galvanealed, magnesium-aluminum-zinc alloys, alusi and galfan. The bonding properties of PrimeCoat® Z107 were tested in combination with several mono-layer, primer/topcoat and powder coatings such as: PVDF, polyester and polyurethane after exposure in wet conditions like humidity tests, boiling water and salt spray tests reaching the highest quality in all tests.

Chemical consumption | Overview consumption per coating weight



Filiform corrosion prevention

PrimeCoat® Z107 series



Market reference



PrimeCoat®, over 15+ years production experience with Cr-free. PrimeCoat®, the most sold Cr-free passivation in Europe, a leading technology

Mechanical adhesion tests 1h boiling water

Z107, PE topcoat

Market reference, PE topcoat

Z107, PVDF topcoat

Market reference, PVDF topcoat

0 T-bend

1 T-bend



Overall performance with & without topcoat

TEST METHOD	Performance
Neutral Salt Spray Test (ASTM B117) DIN EN ISO 9227 (monolayer)	>500 hours, <2mm corrosion
Neutral Salt Spray Test (ASTM B117) DIN EN ISO 9227 (primer & topcoat)	>1000 hours, <2mm corrosion
(Alternating) Humidity Test DIN EN ISO 6270-2	>1000 hours, <2mm corrosion
T-bend test DIN EN 13523-7	0T, after 1hr boiling
Cross-cut test DIN EN 13523-6	G0, after 1hr boiling
Reverse impact test DIN EN 13523-5	18J, after 1hr boiling

Modular system



PrimeCoat® products are modular. This means that each product can be adapted to specific customer needs.

By changing for example the product concentration or adding specialty additives certain product properties can be enhanced.

Other solutions

AD CCT can offer a wide range of treatment and cleaning solutions for coiled materials such as:

- Passivation
- Thin Organic Coatings (TOC)
- Pre-treatments
- Lubricant boosters
- Cleaners and additives
- Insulation coatings

Renowned manufacturers such as TATA Steel come to rely on AD CCT chemicals as part of their continuous manufacturing process. "TATA chose us because of our Chromefree products, our reliable quality and high levels of service."



Coil Coating Technologies is a part of AD International

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