

Passivation Chromefree

High-end chemical technology

- Chromefree water-based passivation / TOC product
- Corrosion performance that surpasses industry standards
- Excellent anti-fingerprint, formability, weldability & bonding properties
- Applicable for temporary storage protection followed by direct color coating
- Modular chemical technology
- Designed for Zinc coated alloys (Z)
- Low peak metal temperatures of >40 °C required for drying
- Prevents dried in product build up on apparatus when compared to conventional TOC Systems

About the product

PrimeCoat® Z908 is a water-based functional coating developed to improve corrosion resistance of galvanized steel such as standard zinc, electrogalvanized zinc, galvalume, galvanealed, magnesium-aluminum-zinc alloys, alusi and galfan. The additional advantages of the PrimeCoat® Z908 are a reduction of friction of the metal surface in forming operations and improved bonding properties for adhesives and paints. PrimeCoat® Z908 is completely free of any kind of chromium and is ROHS and REACH compliant. A galvanized steel sheet treated with PrimeCoat® Z908, as a TOC, is not sensitive for fingerprints and is not easily affected by (alkaline) cleaning.

Overall performance with & without topcoat

TEST METHOD	Performance passivation/pretreatment (20-30 mg P/m ²)		Performance TOC (40-60 mg P/m ²)	
	With Topcoat	Without Topcoat	With Topcoat	Without Topcoat
Neutral Salt Spray Test (ASTM B117) DIN EN ISO 9227 (monolayer)	>500 hrs, < 2mm corrosion	72 hrs, <5% white rust	>500 hrs, < 2mm corrosion	>120 hrs, <5% white rust
Neutral Salt Spray Test (ASTM B117) DIN EN ISO 9227 (primer & topcoat)	>1000 hrs, < 2mm corrosion		>1000 hrs, < 2mm corrosion	
(Alternating) Humidity Test DIN EN ISO 6270-2	>1000 hrs, < 2mm corrosion	>500 hrs, <5% white rust	>1000 hrs, < 2mm corrosion	> 1000 hrs, <5% white rust
T-bend test DIN EN 13523-7	0T, after 1hr boiling		0T, after 1hr boiling	
Cross-cut test DIN EN 13523-6	G0, after 1hr boiling		G0, after 1hr boiling	
Reverse impact test DIN EN 13523-5	18J, after 1hr boiling		18J, after 1hr boiling	
Anti- fingerprint properties	ΔE < 1.0		ΔE < 1.0	
Darkening on Galvalume®	ΔE < 3.0		ΔE < 3.0	

72 hours exposure

Z908-2 30 mg P/m², NSKP

Z908-2 50mg P/m², NSKP

Cr³⁺ 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

Z908 20 mg P/m²

Z908 80mg P/m²

Cr³⁺ Market reference



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 part of AD International

The information provided in this leaflet as well as our technical service, verbal, in writing or by testing is being given to the best of our knowledge. It does not relieve the purchaser from examining the product upon delivery and gives no assurance of suitability of the product for any particular process or purpose. Our General Conditions of Sale and Payment are valid for each delivery.