

## Pretreatment Chrome-free

## High-end chemical technology

- Water-based, Chrome-free pretreatment product
- Primer replacing adhesion and corrosion properties
- Fluoride- & Formaldehyde free
- Meets ECCA standards
- Salt Spray Test resistances from 1000 hours up to 1500 hours with less than 1 mm corrosion
- Developed for steel and zinc alloy coated steel
- Provides excellent corrosion resistance, comparable with conventional no-rinse chromate pretreatments
- Excellent durable bonding and adhesion properties

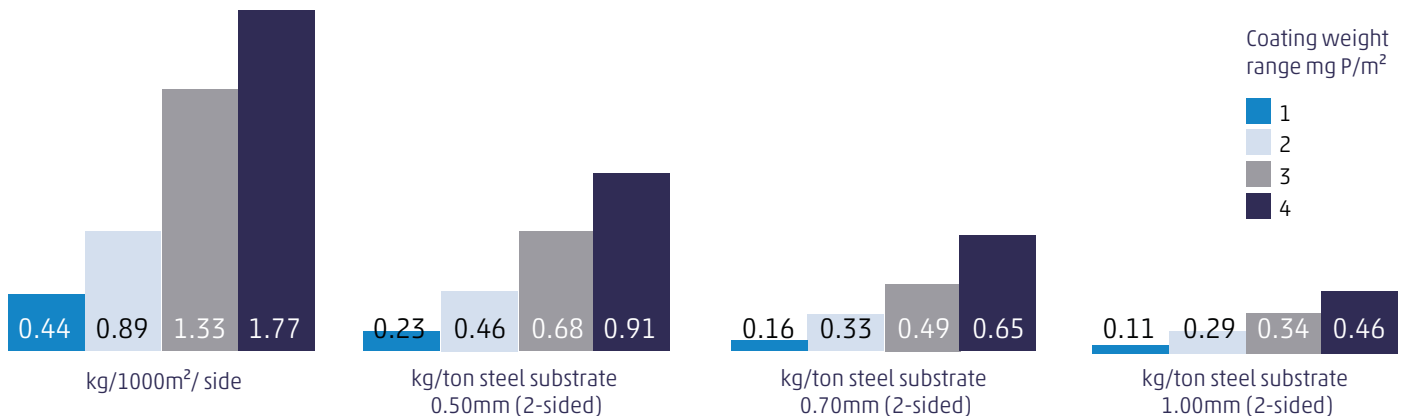
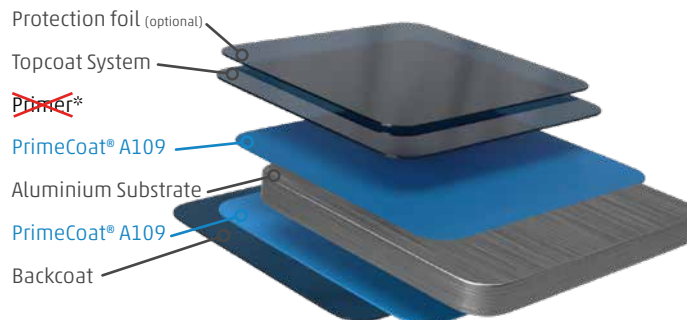
## About the product

PrimeCoat® A109 is a high performing chemical product from Coil Coating Technologies B.V. PrimeCoat® products have been developed based on an in-depth knowledge of customers' production processes and meets or exceeds all critical demands.

PrimeCoat® A109 is based on special nano technology which does not contain any form of the element chromium and is free of fluoride, Formaldehyde and SVHC substances. PrimeCoat® A109 can replace traditional chromium based pretreatments and even enables primer replacing adhesion and corrosion properties.

The bonding properties of PrimeCoat® A109 were evaluated in combination with several mono-layer, primer/topcoat and powdercoatings such as: PVDF, polyester and polyurethane after exposure in wet conditions like humidity tests, boiling water and Acidic Salt Spray Tests reaching the highest quality performance in all tests.

## Chemical consumption | overview consumption per coating weight

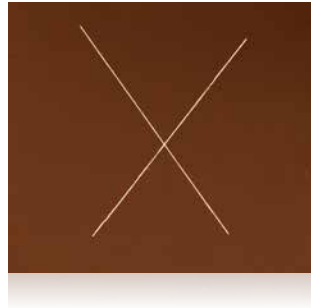
PrimeCoat® A109  
Mono layer  
topcoat system

\* PrimeCoat® A109 is also effective in a traditional primer/topcoat operation

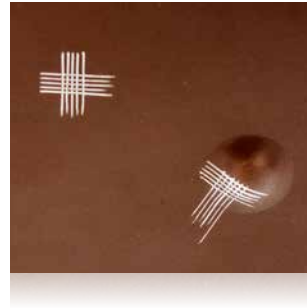
PrimeCoat®, over 15+ years production experience with Cr-free. PrimeCoat®, the most sold Cr-free passivation in Europe, a leading technology

Testing results  
0.65mm aluminium (3000 alloy)  
Poly-urethane topcoat (20µm)

1000 h Acidic Salt Spray Test



1 h in boiling DI-water



### Overall performance with & without topcoat

Test method	Performance
Neutral (AZ) & Acidic (AL) Salt Spray Test (ASTM B117) DIN EN ISO 9227 (monolayer)	>1000 hours, <1mm corrosion
Neutral (AZ) & Acidic (AL) Salt Spray Test (ASTM B117) DIN EN ISO 9227 (primer & topcoat)	>1500 hours, <1mm corrosion
(Alternating) Humidity Test DIN EN ISO 6270-2	>1000 hours, <1mm corrosion
T-bend Test DIN EN 13523-7	0T, after 1hr boiling in demi water
Cross-cut Test DIN EN 13523-6	G0, after 1hr boiling in demi water

## Chemical solutions tailored to your needs

Are you unable to find the ideal solution in our existing product range? Or do you need additional performance aspects in your specific process? No problem. From a small customization to a completely new product development, the sales and R&D team at AD is focused on your specific requirements.

#### Other solutions

AD CCT can offer a wide range of surface 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 Chrome-free 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.