

High-end chemical technology

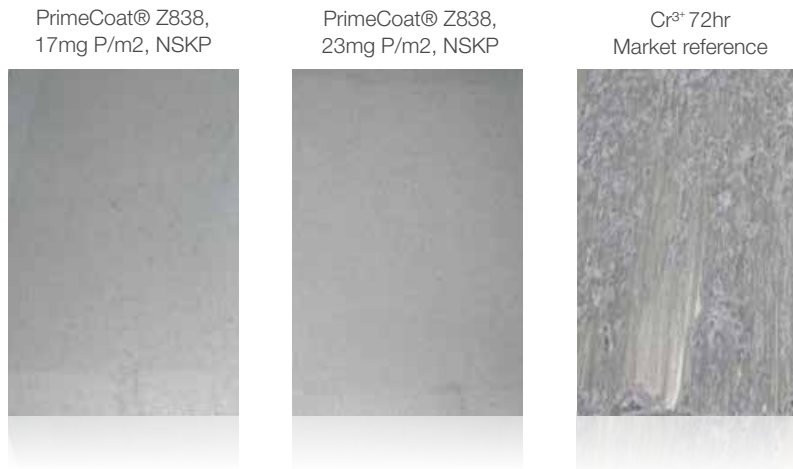
- Trivalent chrome (CR³⁺) water-based passivation / TOC product
- Corrosion performance that surpasses conventional hexavalent chrome passivations/TOC's
- Available as a 'ready to use' product
- ROHS and REACH compliant
- Modular chemical technology
- Excellent anti-fingerprint & formability properties
- Designed for Zinc alloys (Z)
- Low peak metal temperatures of >40 °C required for drying

About the product

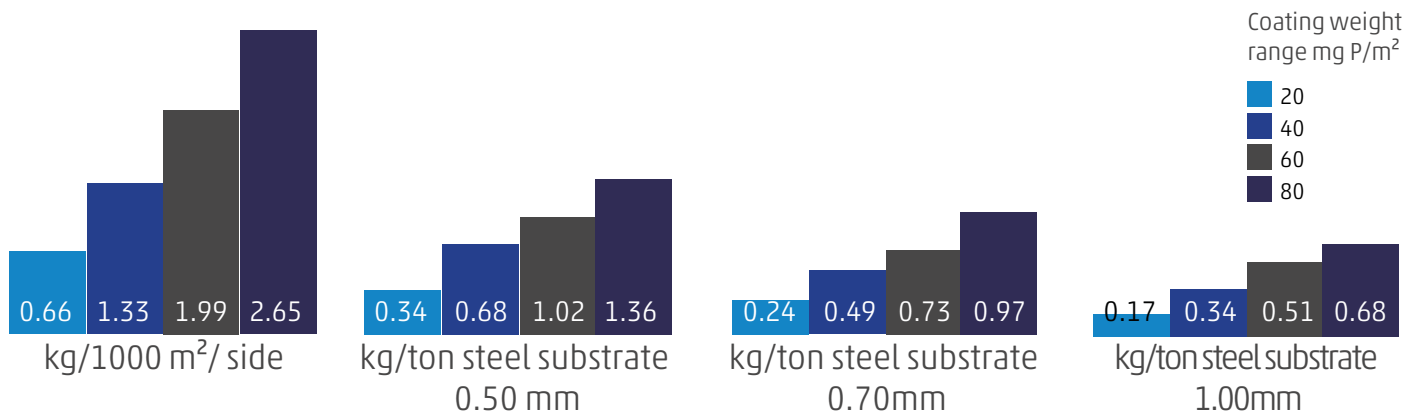
PrimeCoat® Z838 is a water-based functional coating developed to improve corrosion resistance of galvanized steel and other zinc-alloyed coatings. Additional properties of the PrimeCoat® Z838 are reduction of the friction of the metal surface in forming operations and improved bonding properties.

PrimeCoat® Z838 is based on trivalent chromium chemistry, does not contain hexavalent chromium (Cr(VI)) nor fluorides and is ROHS and REACH compliant. Galvanized steel sheet treated with PrimeCoat® Z838, as a TOC, is not sensitive for fingerprints and is not easily affected by (alkaline) cleaning. Typical galvanized steel surfaces that will have advantage of the PrimeCoat® Z838 coating are standard zinc, electrogalvanized zinc, galvalume, galvanealed, magnesium-aluminum-zinc alloys, alusi and galfan. PrimeCoat® Z838 is also available as 'ready to use solution' for direct use in galvanizing lines, improving continuity during production. Metal coated with PrimeCoat Z838-4P is combining excellent tribological, post-painting and adhesive bonding properties on the metal coatings mentioned above.

300 vs 72 hour exposure



Chemical consumption | Overview consumption per coating weight



AD. Leader in ROHS and REACH compliant products.

Mechanical adhesion tests 1h boiling water



Overall performance topcoat

TEST METHOD	Performance TOC Galvanized steel	Performance TOC Zinc-Aluminium alloys	Performance TOC Zinc-Aluminum Magnesium
Neutral Salt Spray Test (ASTM B117)	>250 hours, <5% white rust	>1000 hours, <5% white rust	>1000 hours, <5% white rust
(Alternating) Humidity Test	>1000 hours, <5% white rust	>1000 hrs, <2mm corrosion	>1000 hours, <5% white rust
Darkening	$\Delta E < 3.0$	$\Delta E < 3.0$	-
Anti-finger print properties DIN 53160-2	$\Delta E < 1.0$	$\Delta E < 1.0$	$\Delta E < 1.0$

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.