

# TECHNICAL DATA SHEET

## PRIMECOAT™ Z 838-5P CHROMATE-FREE PASSIVATION

PRIMECOAT™ Z 838-5P is a water-based and chromate-free passivation product (trivalent chrome based) for the corrosion protection on metal surfaces, especially on zinc and zinc alloy steel strip.

### Applications

PRIMECOAT™ Z 838-5P forms a transparent layer achieving an excellent corrosion protection, improved formability and paint adhesion.

### Performance Testing

LAYER PARAMETERS AND APPEARANCE	TYPICAL CORROSION PROTECTION DATA (STANDARD HOT DIP GALVANIZED SURFACES)	OTHER PROPERTIES
2.0 - 4.0 mg Chrome/ft <sup>2</sup> transparent, slightly prismatic	<sup>1</sup> 96 hr <5% WR (NSST) <sup>2</sup> 1000 hr <5% WR (C-HTT)	Excellent paint adhesion especially at layer weights of 1.0 - 2.0 mg Chrome/ft <sup>2</sup>

<sup>1</sup> Neutral Salt Spray testing according to ASTM B 117; WR: white rust

<sup>2</sup> Constant Climate Humidity test according to ASTM D2247

### Fluid Maintenance

Application on preferably zinc / zinc-alloy coated steel strip. Coating with chemcoater or spray/squeeze equipment at ambient temperature without rinsing. A temperature >100°F should be avoided. Recommended peak metal temperature (PMT) range is 120 - 180°F. Water dilutable, preferably with demineralized water. Typical application concentration of 20 - 40% is used. Chrome surface content may be measured via XRF.

### Benefits

- No toxic ingredients - Chromate-free and fluoride-free
- Excellent corrosion protection and appearance even at higher layer weights
- Very good paint adhesion achieving properties of a pretreatment prior to coating
- RoHS Compliant

### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

It is recommended to store the product in original delivery packages (preferably HDPE, PP) at a storage temperature of 40°F (4°C) to 80°F (27°C).

### Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Dark green liquid	
Kinematic Viscosity at 104°F	2 - 5	mm <sup>2</sup> /s
Density at 68°F	1.16	g/cm <sup>3</sup>
pH (at 68°F)	0.9 - 2.0	
Solubility	Completely Soluble in Water	
Boiling Point	90 / 194	°C/°F

All reasonable care has been taken to ensure this publication is accurate upon issue. Such information may be affected by changes subsequent to issue. This Technical Data Sheet is to be used solely for this product. Prior to any use, consult the Safety Data Sheet (SDS) for information on hazard risks and product use parameters. All liability and all warranties express or implied are hereby excluded as to product performance results, the accuracy of these data including any warranty of merchantability or fitness for any purpose.

