

# RZ – 5116

## Two Component Zinc Rich Epoxy

### Product Description

RZ-5116 is a high solid , two component ,polyamide cured zinc rich epoxy coating which complies with the composition and performance requirements of SSPC –Paint 20 , Level 2 and IPS-M-TP-205

### Recommended Use

RZ-5116 is designed to provide protection against corrosion for steel structures, tanks , piping, valves and other steel surfaces exposed to moderate severe industrial environments , C4 and C5i based on ISO12944 . It can be used as a touch-up primer for repairing of inorganic zinc silicate coating and damage galvanized surfaces.

### Outstanding Characteristics

- Fast dry and fast overcoating time.
- good cathodically protection properties.
- It can be used as prefabrication primer.
- Good adhesion to blast cleaned steel (Sa2 ½)and power tools cleaned to ST3
- Excellent salt spray resistance.

### Surface Preparation

Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning.

Abrasive blasting to Sa 2½, SSPC-10 with a sharp-edged surface profile corresponding to Rugotest No. 3, BN9a, keane-Tator comparator, 2.0 G/S or ISO comparator, medium (G).

For repair and maintenance, remove oil and grease ,salts and other contaminants .Clean damaged areas by power tool cleaning to minimum ST3 or Sa2 by abrasive blasting.

### Technical Data

Finish	Flat
Color	Grey 843
Volume Solids	65± 3%
Specific Gravity	2.75 ± 0.05 gr/cm <sup>3</sup>
Flash Point	25 ºC
Recommended D.F.T.	50-75 microns
Theoretical coverage	13 -8.6 m <sup>2</sup> /lit 4.7-3.15 m <sup>2</sup> /kg
Touch dry	15 minutes at 25 ºC
Thermal Resistance	Up to 160 C
Shelf life	12 months

### Application Details

Application method	Air/Airless spray, Brush, Roller
Nozzle orifice	0.017" -0.019"
Nozzle pressure	150 bar / 2200 Psi
Ambient temperature	5-45° C
Mixing	14 /1 by weight 4 /1 by volume
Thinner/Cleaner	RZT- 51
Pot Life	Min 8 hours at 25C
Recoat interval min:	6-8 hours 25ºC
Recoat interval max:	see Remarks overleaf

Revised  
SEP 2017

## Application Procedure of RZ-5116

1. Flush all equipment with recommended cleaner before use.
  2. Stir the product thoroughly with a power mixer.
  3. For air spray, thin with no more than 10-20% of recommended thinner for workability.
  4. Apply a wet coat by parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
  5. Preceding coat: none or zinc silicate shop primer.
  6. Film thickness: it is recommended to avoid to high thickness of the paint as this will give a risk of blistering at later heating.
- Thinner RZT-51 must be added at application to secure the low dry film thickness.
7. Recoating: May be recoated when thorough dry (6 hrs at 25° C ) .

***Before recoating after exposure in contaminated environment clean surface thoroughly by high pressure fresh water hosing and allow to dry.***

6. Double coat all welds, rough spots, sharp edges, rivets, bolts, etc. to ensure proper thickness.
8. Random pinholes, holidays and small damaged or bare areas can be touched up by brush when the film is dry to touch. Larger areas should be sprayed.
9. In confined areas ventilate with clean air during application and drying until all solvents are removed.
10. Clean all equipment with recommended cleaner immediately after use.

### Environmental Conditions

Surface temperature must be at least 3°c above dew point.

Relative humidity during application should be less than 80%.

Do not apply coatings under reverse environmental conditions.

## Safety

This product is flammable. Keep away from heat and open flame. Keep container closed. Avoid prolonged and repeated contact with skin.

Since improper use and handling can be hazardous to health and cause fire or explosion, safety precautions included with application instructions must be observed during all storage, handling, use and drying periods.

If used in confined areas:

- circulate adequate fresh air continuously during application and drying.
- Use fresh air masks and explosion proof equipment
- Prohibit all flames, sparks, welding and smoking
- Take precautionary measures against static discharges

Keep away from food products.

## Storage conditions

Store in cool dry conditions, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperature , the shelf life may be reduced.

## Disclaimers

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience.

However we reserve the right to change the given data without notice.

Any recommendation relating to the use of the products is based on data believed to be reliable. It is buyer to satisfy itself of the suitability of the product for its own particular use.

As the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself.

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Revised  
SEP 2017