



RZ - 5116-2

Two Pack Zinc Rich Epoxy Primer

Product Description

RZ-5116-2 is a two component, zinc rich epoxy with high content of zinc for cathodic protection of steel and galvanized surfaces. It conforms to composition and performance requirements of SSPC-Paint-20 level2 , IPS-M-TP-205 and ISO 12944.

Recommended Use

RZ-5116-2 provides excellent anticorrosive properties through cathodic protection. It is designed for steel and galvanized surfaces, areas exposed to chemical fumes, like bridges, ships, fabrication shops, chemical plants, refineries, drilling rigs, water and treatment plants, offshore platform.

Outstanding Characteristics

- Suitable as prefabrication primer.
- Good cutting and welding properties.
- Suitable as a first coat in various paint systems.
- High resistance in moderately to severely environment.
- 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).

Technical Data

Finish	Flat
Color	Grey
Volume Solids	52 ± 3%
Specific Gravity	2.73 ± 0.05 gr/cm ³
Flash Point	28 °C
Zinc dust content in dry film	85 ± 1 %
Recommended D.F.T.	60-75 microns
Theoretical coverage	8.6-6.9 m ² /lit 3.1-2.53 m ² /kg
Touch dry	0.5 hrs at 25 °C
Fully cured	7 days at 25 °C
Thermal Resistance	Up to 160 °C
Shelf life	12 months at 25 °C

Application Details

Application method	Air/Airless spray, Brush, Roller
Nozzle orifice	0.017" – 0.019"
Nozzle pressure	150 bar / 2200 Psi
Ambient temperature	5- 55 °C
Mixing ratio	A / B 10 / 1 by weight
Thinner/Cleaner	RZT- 51
Pot life	Max 8 hrs at 25°C
Recoat interval min:	(see Remarks overleaf)
Recoat interval max:	(see Remarks overleaf)

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
Application Procedure of RZ-5116-2

1. Flush all equipment with recommended cleaner before use.
2. Add liquid (A) to liquid (B) until it is well mixed and mixture is free of lumps.
3. Since pot life is limited and shortened by high temperatures, do not mix more material that will be used within the pot life time.

Note: Since the pot life is limited and shortened by high temperatures; do not mix more material than will be used in 8 hours at 25°C.

4. For conventional spray, thin with no more than 10% of recommended thinner for workability. For airless spray 5-10% of thinner is normally sufficient. Wait for 15-20 min after mixing.
5. Stir during application to maintain uniformity of material . Apply a wet coat by parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
6. Double coat all welds, rough spots, sharp edges, rivets, bolts, etc. to ensure proper thickness.
7. Recoating:

Recoating interval to later conditions of exposure at 25 °C:

Recoating with	Minimum		Maximum	
	Atmospheric			
	medium	severe	medium	severe
Epoxy	6 hrs	8 hrs	30days	14days

**overcoating times will reduce significantly at high ambient temperature or in strong sunlight.*

Note: If the maximum recoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

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

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 resprayed. 11. In confined areas ventilate with clean air during application and drying until all solvents are removed.

10. Zinc rich primers can form zinc salts on the surfaces and these must be removed before overcoating.

11. Zinc rich primers should NOT to be weathered for long period before overcoating.

12. 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.

Each coat shall be air dried a minimum of 6 hours at 25° C prior to recoating. Longer recoat times will be required at lower temperatures. Normal recoat time is within 6-12 hours. Longer recoat times may require special surface preparation. These coating shall not be applied at temperatures below 5° C.

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.

RANGIN ZEREH

High Performance Protective Coatings

No.15- 15th St. Bokharest Ave. Tehran/ Iran

Tel: +98 21 88723676 Fax: +98 21 88716358

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