

RZ - 5116-1

Two Pack Zinc Rich Epoxy Primer

Product Description

RZ-5116-1 is a two component, polyamide cured epoxy primer, designed to provide exceptional corrosion resistance in harsh environment. It has Min.89% zinc dust in dry film and also, the total of zinc dust by weight of total pigment is 97-98%

Recommended Use

As a versatile long-life primer on steel, suitable for application on industrial structures to be exposed in severe corrosive atmospheres.

It can be used as a touch up primer for repairing of inorganic zinc silicate coating and damage galvanized surfaces .

Outstanding Characteristics

- Provides cathodic protection and undercutting corrosion.
- High zinc loading and low VOC level .
- Suitable as prefabrication primer.
- Suitable as a first coat in various paint systems.
- High resistance in moderately to severely environment.
- Complies with SSPC Paint 20 Level 1, IPS-M-TP-205

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, 841
Volume Solids	65 ± 3%
Specific Gravity	3 ± 0.1 gr/cm ³
Flash Point	30 °C
Zinc content in dry film	89± 1 %
Recommended D.F.T.	50 - 75 microns
Theoretical coverage	13 -8.6m ² /lit 4.3-2.88m ² /kg
Touch dry	1 hrs at 25 °C
Fully cured	7 days at 25 °C
Thermal Resistance	Up to 150 °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	5-45 °C
Mixing ratio	A / B 19 / 1 by weight
Thinner/Cleaner	RZT- 51
Pot life	Max 8 hrs at 25°C
Recoat interval min:	
Recoat interval max:	see Remarks overleaf

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Application Procedure of RZ-5116-1

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.

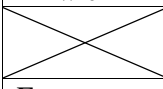
4. For conventional spray, thin with no more than 10-15% of recommended thinner for workability. For airless spray 5-10% of thinner is normally sufficient. Wait for 15-20 min after mixing.

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	12 hrs	12 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 and cleaning of the surface are 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.

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.

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

<http://www.Ranginzereh.com>

Email: info@Ranginzereh.com

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