

# RZ – 5311

## Epoxy Phenolic Primer

### Product Description

RZ-5311 is a two component, high build ,polyamine cured phenolic epoxy primer.

### Recommended Use

As a tank lining primer in petrochemical industry as well as in other aggressive .It can also used as a protective coating under insulation of carbon steel pipe works, due to its excellent resistance to wet and dry cycling conditions at elevated temperatures.

### Outstanding Characteristics

- Excellent oil resistance.
- Excellent dry heat resistance up to 220°C.
- Good Adhesion to galvanized and stainless steel surfaces.
- Excellent chemical resistance against weak acids, alkalis and solvents.
- Suitable for immersion in warm water.
- Corrosion resistance in moderately to severely environment.

### Surface Preparation

Remove salt and other contaminants by (high pressure) fresh water cleaning.(For maintenance)  
Abrasive blasting to Sa 2½, SSPC-10 with a sharp-edged surface profile corresponding to Rug test No. 3, BN9a, keane-Tator comparator, 2.0 G/S or ISO comparator, medium (G). (For new steel)

### Technical Data

Finish	Flat-Semi flat
Color	White, Grey
Volume Solids	55 ± 2%
Specific Gravity	1.4 ± 0.05 gr/cm <sup>3</sup>
Flash Point	26 °C
Dry Film Thickness	100-150 microns
Theoretical Coverage	5.5– 3.6 m <sup>2</sup> /lit 3.9 – 2.6 m <sup>2</sup> /kg
Touch dry	4 hrs at 25 °C
Fully cured	7 days at 25 °C
Thermal Resistance	Continuously 180 °C Short time up to 220°C
Shelf life	12 months at 25 °C

### Application Details

Application method	Air/Airless spray , Brush,Roller
Nozzle orifice	.017"-.023"
Nozzle pressure	200 bar / 2900 Psi
Ambient temperature	10-45° C
Mixing ratio	Base / Hardener 5 / 1 by weight
Thinner/Cleaner	RZT- 51
Pot life	90 minutes at 25°C
Recoat interval min:	16 hrs at 25°C
Recoat interval max:	5 days at 25°C

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

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## Application Procedure of RZ-5311

1. Flush all equipment with recommended cleaner before use.
2. Stir pigmented resin (in the larger container) to an even consistency with a power mixer.
3. Add cure to pigmented resin, and continue stirring for 5 minutes.

Note: Since its pot life is limited and shortened by high temperatures, do not mix more material than will be used in 90 minutes 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.
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. Check thickness of dry coating with a non-destructive dry film thickness gauge. Recoat if greater thickness is required.

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

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.

Each coat shall be air dried a minimum of 16 hours at 20° C prior to recoating. Longer recoat times will be required at lower temperatures. Normal recoat time is within 16 hours. Longer recoat times may require special surface preparation. These coating shall not be applied at temperatures below 10° C.

# RANGIN ZEREH

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## 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.