



## RZ – 5252

### Solvent Free Polyamine Cured Epoxy

*(Hygienic Coating For Interior of Potable Water Pipes)*

#### **Product Description**

RZ-5252 is a two component, solvent free high build epoxy lining used to provide corrosion protection for the internal of steel pipes.

#### **Recommended Use**

It is designed for high build single coat application by either plural feed hot spray equipment ,brush or roller  
It is a hygienic epoxy coating conforms to BS6920 and AWWA C210 for potable water.

#### **Outstanding Characteristics**

- Excellent mechanical strength
- High Gloss, Easily cleaned.
- High water and oil resistance
- High chemical resistance against weak acids and alkalis
- Applicable in high film thickness.
- Self Priming properties
- Heated plural component application.

#### **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 Rug test No. 3, BN9a, keane-Tator comparator, 2.0 G/S or ISO comparator, medium (G).

#### **Technical Data**

|                      |   |
|----------------------|---|
| Finish               | Glossy  |
| Color                | Grey ,White, Green                                      |
| Volume Solids        | 100%  |
| Specific Gravity     | 1.45± 0.03 gr/cm <sup>3</sup>                           |
| Recommended DFT      | 300-500 mic.  |
| Theoretical Coverage | 3.3-2 m <sup>2</sup> /lit<br>2.2-1.35m <sup>2</sup> /kg |
| Touch dry            | 5-6 hrs at 25 ºC  |
| Fully cured          | 7 days at 25 ºC   |
| Thermal Resistance   | Up to 140 ºC  |
| Shelf life           | 12 months at 25 ºC                                      |

#### **Application Details**

|                     |  |
|---------------------|--|
| Application method  | Plural hot airless spray<br>Roller , Brush |
| Nozzle orifice      | 0.021"-0.031"                              |
| Nozzle pressure     | 3500-4000 Psi                              |
| Ambient temperature | 10-45 ºC                                   |
| Mixing ratio        | Base/ Hardener<br>2 / 1 by Volume          |
| Cleaner             | RZT- 51                                    |
| Pot life            | 20 minutes 25 ºC<br>6 Minute at 50C        |

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## **Application Procedure of RZ-5252**

1. Ensure feed tanks and drums remain thoroughly mixed at low speed to ensure homogenization.
  2. Adding thinner or diluents is under any circumstances strictly forbidden.
  3. Both the component (A) and hardener (B) should be heated so that the temperature at the tip is between 40°C and 70°C, depending on the kinds of equipment.
  4. Stir during application to maintain uniformity of material.
  - 5- PLURAL COMPONENT HEATED AIRLESS SPRAY:
    - Pump ratio: 65:1 or any other similar, at 3500-4000 psi
    - 2:1 transfer pump.
    - 40-70°C at gun using in-line heaters.
    - Nozzle orifice: 0.021-0.031 inch.
  - 6- BRUSH OR ROLLER:  
(If needed only for touch up. (Be aware the gel time is typically 10-20 minutes.)
  7. Clean all equipment with recommended cleaner immediately after use.
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## **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.  
These coatings shall not be applied at temperatures below 10°C.

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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.

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## **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.

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## **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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