

TECHNICAL DATA INFORMATION

SOLVENT FREE POLYAMINE EPOXY RZ - 5251

Product Description

RZ-5251 is a two component, solvent free polyamine cured, epoxy coating.

Recommended Use

As a solvent free epoxy coating with excellent chemical & mechanical properties, suitable for coating chemical products containers and industrial or marine structures. Suitable as finish coating on concrete surface.

Outstanding Characteristics

- Excellent mechanical strength
- High oil resistance
- High chemical resistance against weak acids and alkalis
- Applicable in high film thickness.
- Self Priming properties

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	Gloss, Semi glass
Color	White, light colour
Volume Solids	98±2
Specific Gravity	1.66± 0.005 gr/cm ³
Flash Point	100°C
Recommended DFT	300-500 mic
Theoretical Coverage	3.26-1.96 m ² ./lit. 1.97-1.18 m ² /kg
Practical Coverage	depends on loss factor
Touch dry	10 hrs at 25 °C
Fully cured	7 days at 25°C
Thermal Resistance	Up To 140 °C
Shelf life	12 months at 25 °C

Application Details

Application method	Airless spray Roller , Brush
Nozzle orifice	0.023"-0.031"
Nozzle pressure	200 bar / 2900Psi
Application temperature	above 10 °C
Mixing ratio	Base/ Hardener 4 / 1 by weight
Thinner/Cleaner	RZT- 52
Pot life	90 minutes at 25°C

Application Procedure RZ-5251

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 the 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. 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.
5. Double coat all welds, rough spots, sharp edges, rivets, bolts, etc. to ensure proper thickness.
6. Check thickness of dry coating with a non-destructive dry film thickness gauge. Recoat if greater thickness is required.
7. 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.
8. In confined areas ventilate with clean air during application and drying until all solvents are removed.
9. Clean all equipment with recommended cleaner immediately after use.

Limitations

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 24 hours at 77°F (25° C) prior to recoating. Longer recoat times will be required at lower temperatures. Normal recoat time is within 24 hours. Longer recoat times may require special surface preparation. These coating shall not be applied at temperatures below 50° F (10° 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 and Handling

The products must be stored in accordance with national regulations.

The products should be kept in a cool and well ventilated place protected from heat and direct sunlight. Containers must be kept tightly closed.

Handle with care. Stir well before use.

Remarks

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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