

RZ – 5280-1

Solvent Free Epoxy Binder For Epoxy Fiber Glass

Product Description

RZ-5280-1 is a two component, polyamine cured, and solvent free transparent epoxy binder.

Recommended Use

As a binder for fiber glass and topcoat on polyester where high chemical and high mechanical strength are needed.

It is designed for lining of crude oil, salt water ,waste water tanks.

RZ-5281-1 is used with 300 gr mat fiber glass or tissue for high strength.

Outstanding Characteristics

- Excellent mechanical strength
- High oil resistance
- High chemical resistance against acids, alkalies & solvents
- No toxicity
- Good wetting properties and good adhesion to fiber glass mat and minerals.
- Applicable in high film thickness.

Surface Preparation

The surface must be clean & dry. All dirt, Grease, mill scales and any other foreign materials should be removed.

It is generally applied over RZ-5215-1/RZ-5291 (steel surfaces) or RZ-5270/RZ-5291 (Concrete surfaces.). (RZ-5291 is used for filling all holes or pits.)

Technical Data

Finish	Gloss
Colour	Transparent
Volume Solids	100 %
Specific Gravity	1.11 ± 0.02gr/cm ³
Flash Point	100°C
Recommended D.F.T.	1000-5000 microns 1-5 layers with fiber glass Used 1000 mic.for each fiber glass layer.
Theoretical Coverage	1-0.2 m ² /lit 0.9- 0.17 sqm/kg
Touch dry	5-6 hrs at 205°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	Brush or roller
Recommended Mat	300-450 gr/m ²
Application temperature	10-35°C
Mixing ratio	Base / Hardener 2 / 1 by weight
Cleaner	RZT- 51
Pot life	30 min at 25°C

Application Procedure RZ-5280-1

1. Flush all equipment with recommended cleaner before use.
 2. Stir resin (in the larger container) to an even consistency with a power mixer.
 3. Add cure to 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 30 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.
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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.
 Each coat shall be air dried a minimum of 14 hours at 68°F (20° C). 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 Conditions

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.

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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