



RZ – 5215-1

Surface Tolerant Epoxy Mastic

Product Description

RZ-5215-1 is a high solids, heavy duty epoxy primer ideal for maintenance and fabrication shop application. It is a durable epoxy for tank lining of oil, gas oil and distilled salted water tanks.

Recommended Use

For use over prepared steel and galvanized in industrial exposures such as:

- Fabrication shops
- Pulp and paper mills
- Power plants
- Offshore platforms
- Marine applications
- Refineries
- Chemical plants
- Tank interior and exteriors
- Water treatment plants

Outstanding Characteristics

- Low VOC and Nontoxic.
- Film builds on sharp edges and corners .
- Good solvent and chemical resistance.
- Excellent mechanical properties.
- Suitable for treatment of manually prepared steel.
- Confirmed with IPS-M-TP-202.

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, BN 9a , Keane-Tator comparator ,2.0 G/S or ISO comparator , Medium (G) .

For repair and maintenance of non-immersion areas; remove oil and grease ,salts and other contaminants .Clean damaged areas by power tool cleaning to minimum ST3 or Sa2 by abrasive blasting.

Technical Data

Finish	Semi Flat-Semi Gloss
Color	Grey, Red Brown
Volume Solids	70 ± 2%
Specific Gravity	1.45 ± 0.05 gr/cm ³
Flash Point	25 °C
Recommended D.F.T	80-100 microns <i>*30-40 microns is applied as holding primer</i>
Theoretical coverage	8.7-7 m ² /lit 6-4.8 m ² /kg
Touch dry	4-5 hours at 25 °C
Fully cured	7 days at 25 °C
Thermal Resistance	Up to 120 °C
Shelf life	12 months at 25 °C

Application Details

Application method	Air/Airless spray, Brush,Roller
Nozzle orifice	0.017"-0.023"
Nozzle pressure	200 bar / 2900 Psi
Ambient temperature	10-45 °C
Mixing ratio	base / hardener 4 / 1 by weight
Thinner/Cleaner	RZT-51
Pot life	90 minutes at 25 C
Recoat interval	Min 24 hours at 25 °C Max 45 days at 25 °C Max 5 days for exteriors

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

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Application Procedure of RZ-5215-1

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 3 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.

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

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 sprayed.

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.

Environmental Conditions

Surface temperature must be at least 3° C above dew point.

Relative humidity during application should be less than 85%.

Do not apply coatings under reverse environmental conditions.

Normal recoat time is within 24 hours. Longer recoat times may require special surface preparation. The coating shall not be applied at temperatures below 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

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 rights 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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