

RZ-5345

High Solid Phenolic Epoxy Coating

Product Description

RZ-5345 is a two component, high chemical and high temperature resistant Phenolic Epoxy Coating. It is designed for use on tanks, pipes, steel structures, offshore platform and subsea structures. It is hard, impact and abrasion resistant with excellent temperature resistance and cathodic disbondment resistance.

Recommended Use

RZ-5345 is used as a self-primed, high build coating primarily for protection of exterior of steel and stainless steel pipes, tanks and structures in severely corrosive environment. It is designed for single coat application on concrete and steel structure surfaces. It may be applied above and below waterline in both salt and fresh water environments.

Outstanding Characteristics

- Excellent chemical and solvent resistance.
- Dry heat resistance up to 160°C.
- Suitable for immersion in warm water.
- Tough and hard film with very good adhesion.
- Extremely mechanical impact and abrasion resistance.
- Easily applied by simple airless spray.

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, BN9a, 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.

Finish	Semi gloss
Color	White, Grey
Volume Solids	90 ± 2%
Specific Gravity	1.6 ± 0.05 gr/cm ³
Dry Film Thickness	300-600 microns
Theoretical Coverage	3-1.5 m ² /Lit. 1.87 – 0.93 m ² /Kg
Touch dry	150 Min. at 25 °C (D.F.T=500 Mic.)
Fully cured	7 days at 25 °C
Thermal Resistance	Up to 160 °C
Shelf life	6 months at 25 °C

Application Details

Application method	Airless spray, Brush
Nozzle orifice	0.023"-.0029"
Nozzle pressure	220 bar / 3200 Psi
Application Temperature	10-50 °C
Mixing Ratio	Base/Hardener 7 / 1 by weight
Thinner/Cleaner	RZT- 51
Pot life	60 Min. at 25°C
Recoat interval min:	12 hrs at 25°C
Recoat interval max:	48 hrs at 25°C

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Application Procedure RZ-5345

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 60 minutes at 25°C.

4. For conventional spray, thin with no more than 10% of recommended thinner for workability. For airless spray 5% 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.

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 8 hours at 20°C prior to recoating. Longer recoat times will be required at lower temperatures. Normal recoat time is within 12 hours. Longer recoat times may require special surface preparation. These coatings 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, and 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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