

RZ - 5141

High Build Polyamide Cured Epoxy Coating (For Potable Water Tanks)

Product Description

RZ-5141 is a two component, polyamide cured, high solid epoxy coating applicable as hygienic coating for interior of potable water tanks

Recommended Use

As a high solid, high performance protective coating in aggressive environment over concrete or metal substrate. (interior and exterior surfaces). It is certified by Niroo Research Institute and METRA as Coating for interior of potable water tanks and pipes confirmed with AWWA C210 and BS 6920.

Outstanding Characteristics

- Excellent water resistance
- Excellent chemical resistance against weak acids and alkalies
- Corrosion resistance in moderately to severely marine & industrial environment .
- Resistance to water.
- High abrasion resistance.
- suitable for potable water tank.

Surface Preparation

The surface must be clean and dry. All dirt, grease, mill-scales and any other foreign materials should be removed. It is generally applied over RZ-5115 or RZ-5215-1.

Old primed surfaces must be smoothly wire brushed.

*A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals, any dirt,oil,and grease has to be removed,e.g. with suitable detergent. All of the salt to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before recoating.

Technical Data

| | |
|----------------------|--|
| Finish | Semi gloss |
| Color | White , gray |
| Volume Solids | 70 ± 2% |
| Specific Gravity | 1.33-1.37 gr/cm ³ |
| Flash Point | 26 °C |
| Recommended D.F.T. | 200-400 microns <i>It is applied 100-150Mic(dft) in every coat.</i> |
| Theoretical Coverage | 3.5- 1.75 m ² /lit 2.6- 1.3 m ² /kg |
| Touch dry | 6 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 | Air/Airless spray , Brush, Roller |
| Nozzle orifice | 0.023"-0.029" |
| Nozzle pressure | 230 bar / 3400 Psi |
| Ambient temperature | 5-45 °C |
| Mixing ratio | Base / Hardener 5 / 1 by weight |
| Thinner/Cleaner | RZT- 51 |
| Pot life | 2 hrs at 25°C |
| Recoat interval min: | (see Remarks overleaf) |
| Recoat interval max: | (see Remarks overleaf) |

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Application Procedure of RZ-5141

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 8 hours 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. Wait for 10-15 min after mixing.
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.Recoating:

Recoating interval to later conditions of exposure at 25 °C:

| Recoating with | Minimum | | Maximum | |
|-------------------|-------------|--------|---------|--------|
| | Atmospheric | | | |
| | medium | severe | medium | severe |
| RZ-5141 | 12 hrs | 12 hrs | 30days | 14days |

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

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

Before recoating after exposure in contaminated environment, clean the surface thoroughly by (high pressure) fresh water hosing and allow to dry.

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.

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 12 hours at 25° 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 coating shall not be applied at temperatures below 5° 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 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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