

RZ-5449

Coal Tar Epoxy

Product Description

RZ-5449 is a high solid, two component tar filled coating formulated to provide excellent film build in one or two coats. The composition and requirements are based on IPS-M-TP-190.

Recommended Use

For protection of steel in marine structures, pilling, crude oil tanks, ships bottom, pipe coating, power plants, petrochemical & oil refining plants.

It can be used as a waterproof coating for concrete surfaces in waste water facilities.

RZ-5449 can be used as protective coating for exterior, interior of underground crude oil and brine pipeline.

Outstanding Characteristics

- Performance equivalent to SSPC-paint 16 and also meets all requirements IPS-M-TP-190.
- Resists soil stress in underground exposures.
- Suitable for protection of steel in conjunction with cathodic protection systems.
- RZ-5449 provides very good adhesion; flexibility and high film build on steel or concrete surfaces.
- Excellent water and alkali resistance.

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	Dark brown, Black
Volume Solids	80 ± 2
Specific Gravity	1.30 ± 0.05 g/cm ³
Flash Point	26 ºC
Dry Film Thickness	100 - 400 microns 80-100 Mic. Is achieved per each coat
Theoretical coverage	8-2 m ² /lit 6.1-1.54 m ² /kg
Touch dry	8 hrs at 25 ºC
Fully cured	7 days at 25 ºC
Thermal Resistance	Up to 70 ºC
Shelf life	12 months

Application Details

Application method	Air/Airless spray/ Brush/roller
Nozzle orifice	0.019" – 0.025"
Nozzle pressure	200 bar / 2900 Psi
Ambient temperature	10-45° C
Mixing ratio	Base / Hardener 4 / 1 by weight
Cleaner	RZT-51
Pot life	2 hrs at 25 ºC
Recoat interval	Min 12 hrs at 25 ºC Max 2 days at 25 ºC

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

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Application Procedure of RZ-5449

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 2 hours at 25° C.

4. For conventional spray, thin with no more than 10- 15% of recommended thinner for workability. For airless spray 5-10% of thinner is normally sufficient. Wait for 20-30 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. 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.

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 85%. Do not apply coatings under reverse environmental conditions. Each coat shall be air dried a minimum of 20 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. Theses 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 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.

RANGIN ZEREH

High Performance Protective Coatings

No.15- 15th St. Bokharest Ave. Tehran/ Iran
Tel: +98 21 88723676 Fax: +98 21 88716358
<http://www.Ranginzereh.com>

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