



Product data sheet

REVONPOX CRC : RV : 270

Epoxy-Novolac-based coating

PRODUCT DESCRIPTION

High chemical resistant protective lining

RECOMMENDED USE

Epoxy Novolac lining designed to provide protection to concrete and steel structures in aggressive chemical conditions. The material is particularly suitable in wastewater treatment plants, desalination plants, food processing plants, pump and paper mills, electric power plants, chemical manufacturing plants, fertiliser and insecticide plants and petroleum refineries.

CHARACTERISTICS

- Excellent chemical resistance in pH ranging from 1-14 at 25°C
- A heat resistance coating up to 100°C when applied over steel. Up to 80°C
- Good immersion resistant to water, fuel and a wide range of chemicals.
- Lining for contact with dry foods.
- Resistant to salt and fresh water.
- Excellent adhesion to properly prepared concrete, mild steel, and other substrates

PHYSICAL DATA

Colour	grey, ivory
Gloss Level	Satin
Volume Solid	Approx. 100%
Dry Film Thickness	500 microns per coat
Number of Coat	1
Theoretical Coverage	0.5 sq.m/ℓ for 500 microns
Temperature Resistance	Continuous : 95°C (dry), 50°C (wet)
VOC	108 g/ℓ
Flash Point	Base: 42°C Hardener: 56°C
Shelf Life	At least 12 months
Pack Size	20 kg

SURFACE PREPARATION

Steel
Dry abrasive blast in accordance with ISO – Sa 2.5 or SSPC – SP 10 “Near White”. Blast to achieve a 25 – 50 microns anchor profile of as indicate with a Keane Tator Surface Profile Comparator. Remove abrasive residue or dust from surface.

APPLICATION DATA

Application Methods	
Airless Spray	
Nozzle Tip	0.46 – 0.58 mm (0.018 – 0.023 inch)
Nozzle Pressure	10 MPa (approx. 1400 psi)
Conventional Spray	
Nozzle Tip	1.8 – 2.0 mm (0.071 – 0.079 inch)
Nozzle Pressure	0.3 MPa (approx. 43 psi)
Mixing Ratio By Volume	Base : Hardener = 4 : 1
Thinner	REVONER 112
Surface Temperature	Should be 10°C – 49°C, at least 3°C above the dew point to prevent condensation
Drying Time	
Touch Dry	3 hours at 25°C, 1.5 hours at 32°C
Through Dry	24 hours at 25°C, 13 hours at 32°C
To Recoat	
Minimum	16 hours at 25°C, 8 hours at 32°C
Maximum	3 weeks
Full Cure	7 days (under ventilated conditions)
Pot Life	10 hours at 25°C, 5 hours at 32°C



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Chemical resistance

The fully cured coating is resistant to the splash/spillage of the following chemicals

Acetic Acid 25%	Hydrochloric acid 35%
Ammonium Hydroxide *	Hydrofluoric acid 25%
Benzene	Jet fuel
Benzoyl chloride	Isopropanol
Ethylene glycol monoethyl ether	Bleach (Sodium hypochlorite)
Kerosene	Boric Acid *
Lactic acid 20%	Brake Fluid
Methyl isobutyl ketone	Brine 10%
Mineral spirit	Car oil
Nicotinic acid *	Carbon tetrachloride
Nitric acid 30%	Castor Oil
Phenol 50% in IPA	Deionised water
Phosphoric acid 85%	Diesel fuel
Potassium hydroxide *	Diethanolamine 88%
Propylene glycol	Ethylene glycol
Sea water	Hydrogen peroxide 20% sol
Skydrol	Fatty acids
Sodium hydroxide	Formaldehyde 37%
Sulfanic acid *	Gasoline
Tartaric acid 50%	Hexamine 25%
Toulene	Hexane
Vegetable oils	Hydraoine 35%
Xylene	Benzyl alcohol

Chemical resistance property

Chemicals	1 month	2 months	4 months	8 months	12 months
Water or Sea Water	O	O	O	O	O
Sulfuric Acid 70%	O	O	O	Δ	Δ
Hydrochloric Acid 36%	O	Δ	X	X	X
Acetic ACID 50%	O	O	O	O	O
Lactic Acid 50%	O	O	O	O	O
Sodium Hydroxide 30%	O	O	O	O	O
Xylene	O	O	O	O	O
Ethanol 50%	O	O	O	Δ	X

SAFETY PRECAUTION

Keep away from heat, spark and Open flames. Avoid breathing of vapour on skin and eye contact. Keep container closed and store in cool, ventilated area when not in use. Proper ventilation and protective measures must be provided during mixing, application and drying, to keep vapour concentration within safe limits and to protect against toxic hazard. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interior and building.



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DISCLAIMER

The information in this product data sheet is given to the best of our knowledge based on laboratory testing and practical experience. If the product is used under condition beyond our control, we cannot guarantee anything but the quality of the products it self. The information in this product data sheet is liable for modification from time to time in the light of experience and our policy of continuous product development, and without further notice.