Talrakote® EFG

Solvent free epoxy resin coating for potable water retaining structures

The Construction Alchemists

Description

Talrakote® EFG is a two part, solvent free, epoxy resin material. It is supplied in pre-measured quantities ready for site mixing and use. The material cures to provide a smooth, hygienic and tough finish which is suitable for contact with potable water and foodstuffs. It is available in blue and white colours.

Features & Benefits

- Food grade & Hygienic – Suitability to potable water and food stuff storage
- Compatible with all substrates – Can be applied directly on to mild steel and concrete
- Aesthetic – Forms a smooth, glossy and easy to clean surface on curing
- Abrasion resistant – Exceptional resistance to abrasion and to a wide range of chemicals
- Corrosion resistant – Does not contain any metallic particles
- Chemical resistant – Proven against a wide range of industrial chemicals
- Solvent free & Non – toxic - No odour during application and can be used in confined areas

Primary Applications

Talrakote® EFG is used for lining and waterproofing potable water retaining structures and surfaces subject to contact with food stuffs. The cured film is resistant to corrosion, chemical attack and abrasion and is suitable for application to reservoirs, tanks, silos, water treatment works, breweries, dairies, meat and food processing plants.

Technical Properties

Volume of Solids	100%
Specific Gravity	1.8
Consistency	Pourable, spreadable liquid
Pot life	@ 20°C - 60-80 min. @ 30°C - 45 min
Adhesive bond strength with concrete: (ASTM D4541)	~1N/mm^2
Overcoating time	@ 20°C - 24hrs @ 30°C - 18hrs
Fully cured	7 days @ 30°C
Minimum application temperature	10°C

Specification Clause

Potable water / waterproofing lining:
The tank/reservoir lining shall be Talrakote® EFG, a two part epoxy coating specifically designed for contact with potable water. The cured film is non toxic and shall comply with the requirements of IS:9833 - 1981.

Application Instructions

Surface Preparation

All surfaces must be smooth, sound and free from debris, loose or flaky material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering release oils and curing compounds.
All surfaces should then be grit blasted to remove all foreign matter and open up blow holes, and provide a suitable key for Talrakote® EFG. All blow holes and imperfections should be filled with Talrakresimix EP.

Mixing

The contents of the base can should be stirred thoroughly to disperse any settlement. The entire contents of the hardener can should be poured into the base container and mixed thoroughly until a uniform consistency is obtained, taking particular care to scrape the sides and bottom of the container. It is recommended that mechanical mixing be employed, using a mixer or a heavy duty, slow speed electric drill fitted with a paddle.

Application

Any surface should be treated with minimum two coats of Talrakote® EFG. The thoroughly mixed material should be applied with a suitable stiff nylon type brush.
The first coat must be firmly applied and be well scrubbed into the surface, ensuring a uniform coating with a wet film thickness not less than 100 microns. The first coat should be allowed to become tack free before applying the second coat.
The second coat should be applied exactly as above, again achieving a wet fi lm thickness not less than 100 microns.
For ease of overcoating, it is recommended that the first coat be white and the second coat be blue, or vice - versa.
For cold weather working, it is recommended that Talrakote® EFG be stored in a heated building and removed immediately before use, as workability deteriorates and curing time increases at lower temperatures.

Cleaning

Talrakote® EFG should be removed from tools and equipment With Talrasol GP, solvent immediately after use. Cured material can only be removed mechanically.

Talrakote® EFG

The Construction Alchemists

Limitations

- Talrakote® EFG should not be applied over existing coatings. Application should not be undertaken if the temperature is 10°C and falling, nor when the prevailing relative humidity exceeds 90%.
- Although Talrakote® EFG may be applied to damp concrete, there must be no standing or running water.
- Talrakote® EFG, the final colour can vary with curing conditions, and in adverse conditions such as low temperature and/or high humidity, a white bloom may appear on the surface. However, this does not affect the performance of the coating.

Estimating
Packaging

Talrakote® EFG	4 ltr pack
Talrasol GP	5 and 20 ltr cans

Coverage

Talrakote® EFG covers 10.0 m^2 per litre per coat at 100 micron thickness. The coverage figure is theoretical - due to wastage factors and the variety and nature of substrates, practical coverage figures may be substantially reduced.

Storage

All the above products has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions
Health & Safety instructions

Some people are sensitive to epoxy resin systems. Rubber gloves and/or barrier creams, protective clothing, goggles and respirator shall be worn while handling the materials. Sufficient mechanical and/or local exhaust ventilation shall be provided to maintain easy working conditions. If contact with skin or eyes occurs, washing with plenty of water is suggested. SOLVENT SHALL NOT BE USED. If irritation persists, seek immediate medical advice shall be sought. Smoking and naked flame should be avoided while using the materials

Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:
Plot No. 115-A, 1st Phase. Harohalli Industrial Area,
Kanakapura Taluka - 562 112. Ramanagar Dist.
www.talrak.in

Ref : TCC/TDS/PC04 - R1