T-GUARD® EPW

Two Component, Water Based Epoxy Coating for Concrete Surfaces

THERMAX

T-Guard® EPW is a two component pre-packed, water dispersed epoxy resin system supplied ready for onsite mixing and use.

The cured film forms a hard, flexible, matt seal to concrete and other substrates.

Uses

T-Guard® EPW coating provides a pigmented sealing coat onto cementitious and concrete surfaces providing dustproof, easily cleanable and resistant to penetration of oils and liquids. The cured film is resistant to corrosion, chemical and abrasion. Suitable for application to reservoirs, tanks, ducts, silos, water treatment works, breweries, dairies, kitchens and food processing plants. The cured film forms a waterproof barrier and is non-toxic. Also recommended as internal waterproof coating.

Benefits

- Improves the resistance of concrete to many industrial chemicals.
- **Hygienic-** Easily cleanable due to impervious finish
- **Odour-free-** Environment friendly
- **Water-based-** All tools and equipment can be cleaned with water
- Economic and easy to apply.
- **Attractive-** Available in a range of colours
- **Antifungal-** Resistant to fungal attack

Technical Support

Thermax offers technical support service to specifiers, end users and contractors, as well as onsite technical assistance in locations all over the country.

Properties

Mixed Density	Approx. 1.39 gm/cc	
	20ºC	**30ºC**
Workable Time	2 hours	1 hour
Time Between Coats	Within 24 hours	Within 16 hours
Initial Hardness	30 hours	24 hours
Full Cure	21 days	21 days
Mix Viscosity	1200-1500 cps	

Note: After the usable life has expired, the material although not hardened, increases in viscosity and the characteristics of the product change. Excess material should be discarded after this point.

Chemical Resistance

Samples of T-Guard® EPW coating have been subjected to constant immersion at 30ºC for 3 months in the following chemicals and have been found to be unaffected.

Dilute Sulphuric Acid
Dilute Citric Acid
Dilute Sodium Hydroxide
Ammonia 10% Solution
Oil and Grease
Petrol
Tap Water

Good housekeeping is essential in areas where chemical spillage is likely to occur. It is especially important that such spillage should not be allowed to dry as higher concentrations of chemical are involved.

Where chemicals at higher temperatures are involved. Thermax shall be contacted.

Instructions for Use

Preparation

Surfaces to be treated should be clean and free from all contamination. Oil or grease should be removed by suitable means, followed by washing off with clean water. Excess laitence should be removed by etching with MAXCLEAN followed by washing off with clean water.

Mixing

The hardener component of T-Guard® EPW coating system shall be added to the base component and then stirred for a period of 3 minutes. The use of slow speed drill fitted with a paddle is recommended.

Coating

The mixed T-Guard® EPW coating shall be applied to the prepared and cleaned surface, using a brush or lambswool roller, ensuring that the area is completely coated and that 'ponding' of the material does not occur as water may be trapped and material will not cure completely.

The second coat may be applied as soon as the first coat has initially dried. The time will be dependent

T-GUARD® EPW

on the type of surface and ambient conditions but will be in the range of 24 hours at 30ºC.

Health and Safety Instructions

Since some people are sensitive to epoxy resins, gloves, goggles and barrier creams should be used when handling these products. If contact with skin occurs, it must be removed, before it hardens, with resin removing creams followed by washing with soap and water. Solvent should not be used. The use of goggles is recommended.

Fire

T-Guard® EPW coating is non-flammable.

Limitations

Minimum application temperature is 20ºC.

Storage

T-Guard® EPW coating should be stored under normal warehouse conditions, and must be protected from frost.

Shelf Life

6 months in unopened container.

Packing

T-Guard® EPW is supplied in 4 litres packs.

Coverage

The coverage of T-Guard® EPW coating depends to a large extent on the substrate and site conditions. For calculation purpose 20-25m^2 /pack per coat @ 180 microns WFT (100 microns DFT) can be taken as coverage.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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