

TWO COMPONENT WATER BASED EPOXY COATING SYSTEM FOR POTABLE WATER RETAINING STRUCTURE

Description

EP COAT FGW is a Water Based food grade epoxy coating for potable water retaining structures and concrete. Food Grade epoxy material. Is ready to use. The material cures to provide a hygienic and tough finish which is suitable for contact with potable water and foodstuffs. **EP COAT FGW** is resistant to corrosion and chemical attack and also antifungal.

Uses

- Pharmaceuticals, Hospitals, Electronic manufacturing etc.
- Applied on concrete, rendering, stone, asbestos and cement.
- Walls and ceilings
- Inside coating in water tanks
- Areas prone to dampness/humid and high moisture areas
- Areas requiring easy maintenance
- Warehouses, Utility areas, offices etc.

Advantages

- Two components Solvent Free, Food Grade epoxy resin Based Coating
- Good Chemical and high abrasion resistance.
- Solvent free and nontoxic, hence applied in closed area.
- Weather-proof
- Mild dew-resistant
- Provides a smooth and easy to clean surface.
- Good adhesion to concrete and steel
- Food Grade Certified by CFTRI.

Technical Data

Colour of mixed product	Cream
Solid content	~ 50%
Pot life(for 4kg mass):	120 Minutes at +10° C 60 Minutes at +20° C 30 Minutes at +30° C
Curing time	Full cure 7 days at 30° C
Density	Comp A ~ 1.45 gm/l Comp B ~ 1.00 gm/l After mixing ~ 1.2 gm/l
DFT	Approx 100 Micron
Mixing Ratio	1:1
Application temp	10° C to 35° C Humidity should be below 70%

Standard/Approvals

Food grade certified from CFTRI, Mysore



Application Instruction

Surface Preparation:

The concrete substrate must be of sufficient compressive strength (minimum 20 N/mm²) with a minimum pull off strength of 1.5 N/mm².

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. If in doubt apply a test area first. Concrete substrates must be prepared mechanically using grinding equipment, abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the different range of FCSC material from repair segment, flooring segment and range of materials.

The concrete or screed substrate has to be primed or leveled in order to achieve an even surface.

High spots must be removed by e.g. grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

For mixing:

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.

To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.

Over mixing must be avoided to minimize air entrainment.

Application:

The mixed **EP COAT FGW** shall be applied to the dry, prepared substrate making sure a continuous film is achieved using a standard paint brush or good quality lamb's wool roller or spray equipment. The optimum dry film thickness of 100 micron is achieved in two coats.

Packaging

Comp A - 0.5 kg

Comp B - 0.5 kg

Total system – 1 kg packing

Comp A - 2 kg

Comp B - 2 kg

Total system – 4 kg packing

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Shelf life is 12 months..

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Consumption

Coating System Product Consumption

Primer **EP COAT FGW** + 20 % water by weight- 0.1 - 0.2 kg/m²

Seal coat 2 - 3 x **EP COAT FGW** ~ 0.15 - 0.25 kg/m² per coat (roller application)

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

EP COAT FGW is supplied in 4 kg packs consisting of Base and Hardener.

Cleaning

Tools and equipment should be cleaned with water immediately after use (wet condition) Once dry should be removed mechanically.

During continued application, all tools must be regularly & thoroughly cleaned with water

Safety Precautions

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data..

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.