

EP COAT FG

TWO COMPONENT EPOXY COATING SYSTEM FOR POTABLE WATER RETAINING STRUCTURE

Description

EP COAT FG is a two-component solvent-free epoxy resin system, comprising a pigmented base and a hardener, specifically formulated to protect concrete and steel.

On mixing of the two components, it yields a high build, chemical resistant protective coating, which cures to a semi glossy, ultra-dense surface that is easily cleaned, hygienic and safe for contact with foodstuff and potable water. (Approved by CFTRI).

Uses

EP COAT FG is recommended as a protective coating for the inside surfaces of tanks, sumps and walls and as a pore free surface sealer resistant to the growth of bacteria.

Applications include:

- Coating drink water reservoirs
- Chemical storage tanks.
- Dairies & grain silos, Fruit Juice, Holding Tanks.
- Pulp and paper plants.
- Meat processing, food industries & breweries.
- Clean rooms in pharmaceutical facilities
- As a protective coating in oil refineries, paper mills, Power stations, garages, hospitals, hangars, etc.

Advantages

- Non-toxic & non-tainting: safe for drinking water
- High build application
- Solvent free - suitable for use in confined areas
- Can be applied directly to prepared mild steel and concrete
- Smooth, satin, easy to clean surface
- Corrosion, chemical and abrasion resistant
- Can be applied to damp SSD surfaces
- Resistant to mould growth & abrasion.

Standards/Approvals

Food grade certified from
CFTRI, Mysore



Application Instructions

Surface Preparation:

Concrete surface:

All surfaces must be smooth, sound and free from any unsound material and any contaminations 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.

For old structures, existing paints should be removed thoroughly and all the honey combs, pinholes, bug holes should be filled with Repcon range Mortars.

Steel Surface:

All surfaces should be grit blasted to meet the requirements of AS1627.4 Class 2.5. The lining work should be programmed so that newly cleaned steel is coated as soon as possible before the reformation of rust or scale.

For mixing:

EP COAT FG consists of two components, supplied in prepacked quantities. First, the base component is mixed thoroughly and then the hardener is added. Both components are mixed together thoroughly and homogeneously for at least 3 minutes.

Slowly rotating mixers with a paddle (max.300 rpm) are suitable for mixing. Care should be taken to keep entrainment of air to a minimum while mixing.

Application:

EP COAT FG can be applied by nylon-bristle brush or Roller, depending upon the substrate. If the surface temperature is more than 35°C then the application of EP COAT FG should be immediately stopped. Minimum two coats of EP COAT FG are recommended for achieving better waterproofing properties.

During the application of 1st coat, the coating should be done in "X" Direction, ensuring continuation of the coating throughout the surface that needs to be waterproofed. 2nd coat should be applied after the 1st coat is completely dry in the "Y" Direction, Ensuring Continuation of Coating throughout the surface.

The Minimum WFT should be maintained at 125μ per coat.

Airless Spray:

For application by airless spray, use a pump with 45:1 or a higher ratio, minimum 9 mm dia hoses and a nozzle tip of size 0.48 mm to 0.58 mm.

EP COAT FG

TWO COMPONENT EPOXY COATING SYSTEM FOR POTABLE WATER RETAINING STRUCTURE

Technical Specification

The non-toxic, high build epoxy coating shall be EP COAT FG, solvent-less, taint free potable grade, protective coating. The product shall exhibit excellent bond strength with the substrate at least exceeding 1.5 MPa, when tested as per ASTM D4541. The product shall be formulated to have high build thickness exceeding 200 microns per coat on average and shall be applied to achieve overall thickness of 400 microns in two coats. The product must be approved by reputed institute such as CFTRI for use in contact with potable water.

Chemical Resistance

EP COAT FG is resistant to intermittent spillages of the following typically encountered chemicals:

- Sodium Hydroxide, 30% solution
- Sulphuric Acid, 30% solution
- Hydrochloric Acid 32% solution
- Diesel oil
- Lactic Acid, 50% solution
- Nitric Acid, 10% solution
- Wine
- Sea and brackish water
- Formaldehyde, 40% solution
- Aviation hydraulic fuels (Skydrol)
- Vegetable oils

Note:

Higher concentration of mineral acids may cause matting of the surface and colour changes.

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.

Firstchoice Speciality Chemicals Pvt. Ltd.

(An ISO 9001:2015 & 14001: 2015 Certified Co.)
Shrachi Tower, 2nd Floor, 686, Anandapur, E.M.
Bypass, Kolkata - 700107

Note:

Firstchoice Speciality Chemicals (FCSC) goods are sold pursuant to its regular terms and conditions of sale, copies of which can be acquired upon request, and are guaranteed against defective materials and manufacturing. While FCSC makes every effort to ensure that any recommendations, guidance, or specifications or information it may provide is true and accurate, it cannot accept any liability, either directly or indirectly, resulting from the use of its products, whether or not it complied with any advice, specification, recommendation, or information it provided, as it lacks direct or ongoing control over where or how its products are

Consumption

Each 4 kg composite pack yields 2.9 litres on mixing and is sufficient to coat approximately 7.25 m² in 2 coats of 125 microns each, on a fair faced concrete surface. Actual coverage depends on the number of coats, surface profile, loss and wastage.

Packaging

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

Storage & 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.