EP COAT CR

TECHNICAL DATA SHEET

WATER BASED EPOXY COATING

Description

EP COAT CR is a three component, water based, Zero VOC, solvent-free coating for concrete and other building material.

Uses

All clean room applications –

- Pharmaceuticals,
- Hospitals, Electronic manufacturing etc.
- 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

EP COAT CR is characterized by:

- Attractive - available in a range of colors.
- Hygienic - easily cleaned due to impervious finish.
- Economic and easy to apply.
- Solvent free - can be applied in confined spaces.
- Odor free - can be applied in food processing areas and hospitals.
- Water based - all tools and equipment can be cleaned with water. easy to mix, apply & clean
- Green Building concept - Green Product
- Vapor Permeable – Allows water vapor to permeate and minimizes damp spots and spalling.
- Moderate Resistance to oil and grease
- Mild resistance to dew

Technical Data

Basis	3 component kit (Base + Hardener + Pigment Paste)
Base	Water dispersed epoxy-resin Off white emulsion.
Hardener	Dark Brown color Liquid
Colour Part	Off white paste.
Application by	Brush able / Roller
Shade	Off White color factory made, can be tinted at site for customer requirement.
Pot life: @ 20˚C	30 mint
Mixed Density	Approx. 1.50 g/ml at 27˚ C
Application temp	15˚ C to 35˚ C Humidity should be below 70%
Tack free time	6-8 hrs. at 30˚C, at low temp tack free time will high.

Application Instruction

Method of use of Tools:

For Surface Preparation:

As appropriate to substrate condition & size of repair area involved use chisel, grinder (such as High Grinder 125.4 RO*or similar) sandblasting, water-blasting or grit blasting equipment

For mixing

Use a spiral mixing paddle (such as MG140*) attached to a variable slow speed mixer (such as High Mix EHR23*).

Surface preparation:

Surface to be coated must be structurally sound, dry and free from loose material. All surface contamination must be removed. Grease and oil should be grit blasted or water jetted. Deeper penetration must be removed by mechanical means. Any laitance must be removed from concrete surface by suitable means then washed off and dried. New concrete should be allowed to cure for at least 28 days prior to application. It is essential that EP COAT CR applied to sound clean, visibly dry substrates in order to achieve maximum adhesion between the coating and substrate.

Apply a 5 by 5 ft. test in an inconspicuous area that meet the owner's expectations for appearance (Note that the final finish would depend on the smoothness of the surface)

Priming:

Priming is recommended only for porous and dusting surface. For recommendation please contact technical cell of FCSC.

Product mixing:

The pigment pastes to be mixed thoroughly into the hardener part using drill machine, and then finally add base part in to the mixed material mix the entire contents for at least 3 minutes mechanically using a slow speed (300 – 500rpm) heavy duty drill fitted with a mixing paddle. Mix till homogeneous consistency and color is obtained.

Application/Coating:

The mixed EP COAT CR 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 130 micron is achieved in two coats.

EP COAT CR

TECHNICAL DATA SHEET

WATER BASED EPOXY COATING

Consumption

EP COAT CR approx. 0.300 kg/m2 in two coats. It will give WFT 200 microns and the Dry film thickness would be Approx. 130 microns. 15 – 18 sq meter will cover in one pack of 5 kgs . Higher consumption is expected on rough surfaces . Always allow for wastage when calculating quantities to order.

Packaging

EP COAT CR is supplied in 5 kg composite pack.
(Base +Hardener + color part) kits consisting of 3 components all three components are delivered at a predetermined mixing ratio.

Cleaning

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

Equipment Maintenance:

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

Storage and Shelf life

6 months if stored in unopened container below 30ºC under shaded area.t.

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.