

EPOCOTE CR

Chemical Resistant Epoxy Coating

DESCRIPTION

EPOCOTE CR is a pitch-modified epoxy coating which is designed for application to concrete and masonry to provide superior water resistance whilst maintaining a degree of flexibility. It cures to form an exceptionally waterproof and chemical resistant coating. It is supplied as a two-component product, consisting of base component and a curing agent. The two components are supplied in pre-weighed quantities for site mixing.

USES

EPOCOTE CR is suitable for application to concrete, masonry and steel substrates where exceptional water resistance and chemical resistance is required. It is particularly suitable for application in chemical bunds, sewage treatment works, and for the anticorrosive protection of steel. EPOCOTE CR offers excellent resistance to long term immersion in 25% concentrate hydrochloric acid, 50% concentrate sulphuric acid, 20% concentrate sodium hydroxide and petrol.

ADVANTAGES

- Excellent resistance to water.
- Excellent resistance to a wide range of chemicals.
- Highly durable.
- Retains degree of flexibility once cured.

Property	Value
Colour	Black
Tensile Strength	8 MPa
Elongation @ Break	45%
Pot Life	60 mins @ 20°C
Tack Free Time	20 hrs @ 20°C
Hard Dry Time	36 hrs @ 20°C
Full Chemical Resistance	7 days @ 20°C
Dry Film Thickness	300 µm

PROCEDURE

Surface Preparation: Correct surface preparation is paramount to the success of the applied coating. Concrete and masonry surfaces should be sound clean and free from dust, surface laitance, grease, hydrocarbons and other deleterious materials. It is important to prepare the surface by mechanical means, such as vacuum grit blasting and diamond grinding to ensure the complete removal of any contaminants and to provide an adequate key for the coating. The moisture of new concrete substrates should be less than 6% RH.

Imperfections in the substrate should be repaired using a suitable PREMCRETE REPAIR PRODUCT. Steel surfaces should be grit blasted to a nominal SA 2.5 Swedish standard. Steel substrates should be primed immediately once preparation has finished to decrease the chance of flush rusting.

Mixing: The contents of the curing agent component should be poured into the base component tin and mixed thoroughly using a slow speed drill and paddle mixer until a homogeneous mix is achieved which is uniform in colour and consistency. Special care should be taken to ensure that packs are not part mixed.

Application: EPOCOTE CR should be applied using a suitable brush, roller or airless spray equipment at a rate of 0.2Kg per M² on large horizontal areas that maybe beneficial to pour the mixed material evenly onto the substrate so as to increase the pot life of the coating. After a maximum of 24hrs a second coat of EPOCOTE CR should be applied at 5M² per Kg. If a sealed non-slip finish is required, then quartz aggregate should be broadcast into the first coat before removing excess aggregate and then application of the second coat. If the coating is to be overlaid with a cementitious screed, then a quartz aggregate should be broadcast into the freshly applied coating to provide an effective key.

Curing: EPOCOTE CR will have cured sufficiently after 24 hrs at 20⁰C to allow foot traffic. Allow 36 hrs prior to allowing vehicular traffic. Full chemical resistance is achieved after 7 days at 20⁰C.

Equipment Cleaning: Tools should be cleaned immediately using PREMCRETE CLEANING SOLVENT.

PACKAGING & COVERAGE

Pack Size: EPOCOTE CR is supplied in 5kg and 15kg packs.

Coverage: EPOCOTE CR should be applied at a rate of 0.2Kg per M² per coat. A 5Kg pack will cover approximately 12M² with the recommended two coats.

STORAGE & SHELF LIFE

EPOCOTE CR should be stored in clean, dry conditions at temperatures between 10⁰C and 30⁰C. When stored in unopened containers, EPOCOTE CR will have a shelf life of 12 months.

HEALTH & SAFETY

See separate material safety datasheet.

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