TECHNICAL DATA SHEET

EPOCOTE FS

Waterproof Epoxy Coating



PREMCRETE

EPOCOTE FS



DESCRIPTION

EPOCOTE FS is a high-performance, solvent-free epoxy coating designed for application to concrete and masonry substrates, providing an effective waterproof and damp-proof membrane.

Once cured, the coating forms a highly abrasion-resistant and chemically resistant surface.

EPOCOTE FS is supplied as a two-component system comprising a base component and a curing agent. Both components are supplied in pre-weighed quantities to facilitate accurate site mixing.

USES

EPOCOTE FS is specifically designed for use as a liquid waterproof membrane in below-ground applications, including basement construction, swimming pools, and lift pits.

The product may also be applied to concrete balconies and walkways to provide a highly durable waterproof coating with excellent mechanical properties and an attractive decorative finish. Where a slip-resistant surface is required, quartz aggregate may be incorporated into the coating system to create a durable non-slip finish.

EPOCOTE FS is suitable for application to concrete, masonry, and steel substrates.

ADVANTAGES

- Solvent-free and low odour.
- Excellent adhesion to a wide variety of substrates.
- Outstanding resistance to water and industrial chemicals.
- Suitable for vehicular traffic.

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colour	N/A	Black and Grey
Viscosity	N/A	480 CPS @ 20°C
Pot Life	N/A	40 minutes @ 20°C100 minutes @ 10°C
Flexural Strength @ 20°C	N/A	60 MPa
Adhesion to Concrete	N/A	3.0 MPa (Concrete Failure)
Water Absorption	N/A	<1% after 7 days

EPOCOTE FS

INSTALLATION PROCEDURE

Surface Preparation

Correct surface preparation is essential to the successful performance of the coating system.
Concrete and masonry substrates must be structurally sound, clean, and free from dust, surface laitance, grease, hydrocarbons, and any other deleterious materials. Surfaces should be mechanically prepared using methods such as vacuum grit blasting or diamond grinding to ensure the complete removal of contaminants and to provide a suitable mechanical key for the coating.
The moisture content of new concrete substrates should be less than 97% relative humidity (R.H.).
Any imperfections within the substrate should be repaired using a suitable PREMCRETE REPAIR PRODUCT.
Steel substrates should be grit blasted to SA 2.5 in accordance with the Swedish Standard. Steel surfaces should be primed immediately following preparation to prevent flash rusting.

Mixing

The entire contents of the curing agent component should be poured into the base component container and mixed thoroughly using a slow-speed drill fitted with a suitable paddle mixer until a homogeneous mix is achieved, with a uniform colour and consistency.
Care should be taken to ensure that packs are mixed in their entirety and are not part-mixed.

Application

EPOCOTE FS should be applied using a suitable brush, roller, or airless spray equipment at a coverage rate of 3m^2/kg. For large horizontal areas, it may be advantageous to pour the mixed material evenly onto the substrate to maximise working time and increase the effective pot life.
A second coat of EPOCOTE FS should be applied within 24 hours at a coverage rate of 3m^2/kg.
Where a sealed non-slip finish is required, quartz aggregate should be broadcast into the first coat. Any excess aggregate should be removed prior to applying the second coat.
Where the coating is to be overlaid with a cementitious screed, quartz aggregate should be broadcast into the freshly applied second coat to provide an effective mechanical key.

Curing

EPOCOTE FS will cure sufficiently after 12 hours at 20°C to withstand foot traffic.
Allow a minimum of 7 days at 20°C before permitting vehicular traffic.

Equipment Cleaning

All tools and equipment should be cleaned immediately after use with PREMCRETE CLEANING SOLVENT.

PACKAGING & COVERAGE

Pack Size

EPOCOTE FS is supplied in 5kg and 20kg packs.

Yield

EPOCOTE FS should be applied at a coverage rate of 3m^2/kg per coat.

Coverage

One 5kg pack will cover approximately 7.5m^2 when applied as the recommended two-coat system.



STORAGE & SHELF LIFE

EPOCOTE FS should be stored in clean, dry conditions at temperatures between 10°C and 30°C.
When stored in unopened containers under the recommended conditions, EPOCOTE FS has a shelf life of 12 months.

HEALTH & SAFETY

Refer to the separate Material Safety Data Sheet for full health and safety information.

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