TECHNICAL DATA SHEET

EPOCOTE SF

Solvent-Free Epoxy Coating



PREMCRETE

EPOCOTE SF



DESCRIPTION

EPOCOTE SF is a high-build, solvent-free epoxy coating designed to provide durable protective and decorative finishes to concrete, masonry and steel substrates.

The product is supplied as a two-component system comprising a base component and curing agent supplied in pre-weighed units for accurate site mixing. Once cured, EPOCOTE SF forms a highly durable, chemically resistant and abrasion-resistant coating suitable for a wide range of industrial, commercial and food production environments.

EPOCOTE SF provides excellent adhesion to prepared concrete, masonry and steel surfaces and is available in a wide range of colours, including bespoke RAL shades.

USES

EPOCOTE SF is specifically designed for use as a durable protective coating where chemical resistance, abrasion resistance and waterproofing performance are required.

Typical applications include:

- Industrial floors
- Warehouse floors
- Production facilities
- Food preparation and food processing areas
- Engineering workshops
- Plant rooms
- Chemical storage areas
- Bund walls and bund floors
- Concrete tanks and containment structures
- Concrete walls and floors requiring decorative protection

When combined with a suitable quartz aggregate, EPOCOTE SF may also be used to create highly durable slip-resistant flooring systems.
The coating exhibits excellent resistance to dilute acids, alkalis, vegetable oils, diesel, petrol and a wide range of hydrocarbon-based contaminants.

EPOCOTE SF

ADVANTAGES

- Superior chemical resistance
- Excellent adhesion to concrete, masonry and steel
- Solvent-free and low odour
- High-build coating system
- Excellent abrasion resistance
- Waterproof finish
- Easily cleaned and maintained
- Suitable for food preparation areas
- Available in a wide range of colours
- Suitable for both wall and floor applications

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colour	N/A	Grey (Any RAL Colour Available)
Adhesion to Concrete	N/A	3.7 MPa (Concrete Failure)
Adhesion to Steel	N/A	>12 MPa
Pot Life @ 20°C	N/A	60 Minutes
Tack-Free Time @ 20°C	N/A	6 Hours
Hard Dry Time @ 20°C	N/A	16 Hours
Full Chemical Resistance	N/A	7 Days @ 20°C
Slip Resistance - Smooth Finish	BS7976	Wet PTV - 12 Dry PTV - 70
Slip Resistance - Aggregate Broadcast Finish	BS7976	Wet PTV - 60 Dry PTV - 70

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, laitance, grease, oils, hydrocarbons, curing compounds, release agents and any other contaminants which may impair adhesion. Substrates should be mechanically prepared using suitable methods such as vacuum grit blasting, captive blasting or diamond grinding to remove contaminants and provide a sound open-textured surface.
The moisture content of concrete substrates should be less than 6% relative humidity prior to application.
Any defects within the substrate should be repaired using a suitable PREMCRETE REPAIR MORTAR prior to coating application.
Steel substrates should be grit blasted to SA 2.5 in accordance with the Swedish Standard and coated immediately following preparation to minimise flash rusting.

Substrate Priming

Porous substrates may require priming prior to application.
Where required, EPOPRIME W should be applied to the prepared substrate in accordance with the relevant product datasheet.
Where substrates are subject to residual moisture or where an effective damp proof membrane is not present, EPOPRIME DPM should be used as the primer coat to provide protection against moisture transmission.

EPOCOTE SF

Mixing
The entire contents of the curing agent component should be added to the base component container and mixed thoroughly using a slow-speed drill fitted with a suitable mixing paddle for 2-3 minutes.
Mix until a completely homogeneous material is obtained with a uniform colour and consistency.
The product is supplied in pre-weighed units and components should not be part mixed.

Application
EPOCOTE SF should be applied using brush, roller or suitable airless spray equipment.
The coating should be applied at a coverage rate of approximately 3m² per kilogram per coat.
For larger floor areas, it may be beneficial to pour the mixed material directly onto the substrate and spread evenly to maximise working time and increase effective pot life.
A second coat should be applied within 24 hours of the initial application at the same coverage rate.
Where a sealed slip-resistant finish is required, kiln-dried quartz aggregate should be broadcast into the first coat whilst still wet. Excess aggregate should be removed prior to application of the second coat.
Where the coating is to receive a bonded screed or other cementitious overlay, quartz aggregate should be broadcast into the second coat to provide a suitable mechanical key.

Curing
At 20°C, EPOCOTE SF will typically become tack-free after approximately 6 hours.
The coating will generally become hard dry after approximately 16 hours at 20°C.
Light foot traffic may be permitted after approximately 12 hours at 20°C.
For applications subject to vehicular traffic or aggressive chemical exposure, allow a minimum curing period of 7 days at 20°C before full service conditions are introduced.
Curing times will vary depending upon ambient temperature, substrate temperature and ventilation conditions.

Equipment Cleaning
All tools and equipment should be cleaned immediately after use using PREMCRETE CLEANING SOLVENT.Cured material can only be removed by mechanical means.

PACKAGING & COVERAGE
Pack Size
EPOCOTE SF is supplied in 5kg and 15kg units.
Coverage
EPOCOTE SF should be applied at approximately 3m²/kg per coat.
One 5kg unit will cover approximately 7.5m² when applied as the recommended two-coat system.Actual coverage rates may vary depending upon substrate profile, porosity and application method.



STORAGE & SHELF LIFE
EPOCOTE SF should be stored in clean, dry conditions at temperatures between 10°C and 30°C. Protect containers from frost, excessive heat and direct sunlight.
When stored in original unopened packaging under recommended conditions, EPOCOTE SF has a shelf life of 12 months from the date of manufacture.

HEALTH & SAFETY
Appropriate protective clothing, gloves and eye protection should be worn during mixing and application.
Avoid contact with skin and eyes. In the event of accidental contact, rinse immediately with plenty of clean water and seek medical advice if irritation persists.
Ensure adequate ventilation during application and curing.
Refer to the separate Material Safety Data Sheet for full health and safety information.

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