

Cemfloor FC150

CEMKRETE

High performance solvent based epoxy resin floor coating

Innovative products for your success

Description

Cemfloor FC150 is a high performance two-component solvent based, epoxy resin coating system supplied in pre-weighed packs ready for on-site mix and use. The cured film forms a hard but flexible coating with excellent adhesion to clean concrete, sand/cement, granolithic screeds and certain metal surfaces. It cures to a semi-gloss, impervious finish which is easily cleaned. The product is available in a range of standard colors and is also available in a clear grade.

Uses

To provide a hard wearing and easily cleaned, attractive floor coating in areas, where high resistance to chemical attack is required. It is suitable for use in production assembly areas, workshops, dairies, soft drinks production and bottling plants, kitchens, showrooms etc. It is particularly suitable in wet working areas and where chemical spillage is likely such as:

- Production shop areas
- Processing plants
- Dye work areas
- Assembly areas
- Maintenance shop areas

It can also be used as a final coating and sealer for epoxy floor screeds to provide a more durable and easily cleaned surface where high impacts resistance is desirable.

Advantages

- Achieve hard wearing, durable and low maintenance costs
- Achieve high resistance to a wide range of industrial chemicals
- Hygienic - impervious finish provides easily cleaned surface
- Availability in a range of colors to improve the working environment

Standards Compliance

Cemfloor FC150 complies with BS 476, Part 7: 1971 - Class 1 spread of flame.

Technical Support

Cemkrete offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, the company offers a technical support service to specifiers, end users and contractors. It also can offer on-site technical assistance.

Design criteria

Cemfloor FC150 is designed for application in two coats to achieve a total dry film thickness of 100 microns. Substrates should be dry and not suffer, or be likely to suffer, from rising damp. If necessary, suitable damp-proof membranes should be installed to prevent this. Substrates should not have a relative humidity greater than 75% at the time of installation.

Properties

The values given below are average figures achieved in laboratory tests at 20°C and 35°C. Actual values obtained on site may show minor variations from those quoted.

	@ 20°C	@ 35°C
Pot life* :	75 mins	45 mins
Tack free time :	2-4 hrs	1-2 hrs
Time between coats :	6-24 hrs	4-16 hrs
Initial hardness :	24 hrs	18 hrs
Full cure :	7 days	4 days
Wet film thickness (per single coat) :	125 microns	
Total dry film thickness (1 coat) :	50 microns	

Density 1.05 ± 0.01

Solid content 70 ± 2 %

Chemical Properties

Cemfloor FC150 is resistant to a wide range of chemicals. Few of them are listed below. Specific data will be available upon request.

Citric Acid 10%	:	Good Resistant
Hydrochloric Acid (10%)	:	Good Resistant
Lactic Acid (10%)	:	Good Resistant
Sulphuric Acid (10%)	:	Good Resistant

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Specification Clause

Epoxy Floor Coating

The floor coating shall be a two component solvent based epoxy suitable for application by spray, brush or lambs wool roller. The coating shall be applied in two coats to achieve a total dry film thickness of 100 microns wet film thickness (WFT 125 microns/coat)

Instructions for Applications

Surface Preparation

It is essential that Cemfloor FC150 is applied to sound, clean, dry substrates in order to achieve maximum adhesion between the floor coating and substrate. Because Cemfloor FC150 is a relatively thin coating, the substrate must be fine textured. Any surface irregularities may show through causing excessive wear on high spots and changing the perceived color of the coating.

New Concrete Floors

These should normally have been placed for at least 28 days and have a moisture content of less than 5%. Floors should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Excessive laitance can be removed by the use of mechanical methods. Dust and other debris should then be removed by vacuum cleaning.

Old Concrete Floors

A sound, clean substrate is essential to achieve maximum adhesion. As for new concrete floors dry removal of laitance by use of mechanical methods is preferable. Oil and grease penetration should be removed by the use of a proprietary chemical degreaser or by hot compressed air treatment. Any damaged areas or surface irregularities should be repaired using one of the Cemkcrete repair mortar range of products.

Steel Substrates

Steel substrates should be grit blasted to surface quality SA 2½ (BS 4232: Second Quality) and primed with a single coat of Cemflor Primer 500.

Epoxy Screeds

Cemfloor FC150 can be applied to Cemflor 1000TF screeds. High spots or trowel marks should be rubbed down and dust and other debris removed by vacuum cleaning.

Mixing

The base and hardener components of Cemfloor FC150 should be thoroughly stirred before the two are mixed together. The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly, and then add the colour pot and mix for at least 3 minutes. The use of a heavy-duty slow speed, flameproof or air driven drill fitted with a Cemkcrete Mixing Paddle is desirable. Mix these components in the quantities supplied taking care to ensure all containers are scraped clean. Do not add solvent thinners at any time.

Application

The mixed Cemfloor FC150 should be applied to the prepared surface using airless spray, brush or lambs wool roller. Ensure that the area is completely coated and that 'ponding' of the material does not occur. The second coat may be applied as soon as the first coat has initially dried (typically 4 to 16 hours) the time will be dependent on the type of surface and the ambient conditions.

Maintenance

The service life of a floor can be considerably extended by good housekeeping practices. Regular cleaning of Cemfloor FC150 may be carried out using a rotary scrubbing machine with a water miscible cleaning agent or by hot water washing at temperatures up to 50°C.

Cleaning

Cemfloor FC150 should be removed from tools and equipment with solvent immediately after use. Hardened material can only be removed mechanically.

Estimating and Packaging

Supply

Cemfloor FC150	:	5 Kg. per pack
Cemfloor Primer 500	:	10 Kg. per pack

Coverage

Cemfloor FC150 : 6 -10 m²/ kg @ 125microns WFT per coat
(Recommended 2 coats)

Cemfloor Primer 500 : 5.0-8.0 m² /kg.

Note: Coverage figures given are theoretical - due to wastage factors and the variety and nature of substrates, practical coverage figures may be reduced, this will vary with site and application conditions.

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Precautions

Health and Safety

Cemfloor FC150, Cemflor Primer 500 and should not come into contact with skin and eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves, and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

Disposal

Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal authority regulations.

For further information, refer to the Product Material Safety Data Sheet.

Storage

Shelf Life

Cemfloor FC150 has a shelf life of 12 months if kept in a dry store between 5°C and 30°C in the original, unopened packs.

Additional Information

Cemkcrete manufactures and supplies a wide range of those complementary products which includes:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkcrete office - as below.

Important Note: Cemkcrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkcrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkcrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.