

PRODUCT DESCRIPTION: FIBFLOOR-MF is a high performance self levelling, polyurethane resin flooring system, supplied as three parts. Cured system forms a tough, easily cleaned, pigmented layer from 3mm up to 6 mm thick. Special applied, polyurethane resin floor finishes, combining outstanding wearing properties with high chemical resistance and pleasing decorative properties. Ideally suited in aggressive areas where a seamless, joint-free finish is required and maximum cleanliness is essential. Factories and general heavy duty plant and traffic areas are just some of the environments that can benefit from the tough chemically resistant system.

AREAS OF APPLICATION

- Warehouse and storage
- Abattoirs and drinks production
- Semi wet processing zones
- Pharmaceutical industry
- Cold rooms, chillers and freezers
- Commercial and industrial kitchens
- General heavy duty plant and traffic areas
- Dairies, cheese and milk production or processing unit
- Food and beverage production or storage unit or factory

ADVANTAGE

- Non tainting
- VOC free and environmental friendly
- Hard wearing - extremely durable and abrasion resistant with low maintenance costs
- Resistant to a wide range of chemicals and liquids.
- Seamless - easily cleaned to maintain high standards of hygiene

APPLICATION

SURFACE PREPARATION

The concrete or screed substrate must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues etc. that will inhibit adhesion to the substrate. Use a suitable Degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated concrete surfaces should be mechanically prepared, either by scrubbing, grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying FIBFLOOR-MF. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment. To ensure maximum bond, grooves must be cut into the perimeter of the sub-floor, typically 8 mm deep by 8 mm wide. These should be inset approximately 100mm from and running parallel with the walls and adjacent to doorways and plinths etc., including any finishing edge sand day joints. The grooves must have clean, square edges and the product laid into the full depth of the groove forming a perimeter anchorage. Grooves should surround areas not exceeding 20 m².

PRIMING

Apply FIBFLOOR-MF scratch coat on the concrete surface minimum 1mm and depend on floor condition, allow it to get dry, before applying FIBFLOOR-MF in the desired thickness. For best bond concrete surface must be prepared as per CSP 1,2 or 3.

MIXING

The contents of Part A (pu resin) and Part B (pu hardner) of FIBFLOOR-MF must first be mixed together for 1 minute, using forced action, in a suitably sized mixing vessel. The contents of Part C the powder component mixed together for 2 to 4 minutes to create one homogeneous mix. One or more packs may be mixed at the same time in order to maintain a quick rate of installation.

APPLYING AND LAYING

For flooring applications, the mixed material should be applied to the prepared and primed surface between 8 and 24 hours after priming, using a trowel to achieve the desired thickness. As soon as the product has been laid and as work progresses, the surface should be gently rolled with a spiked roller in order to provide an even surface appearance. Do not re-roll later. The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened, cured surface. All movement joints in the sub-floor must be carried through the topping and properly sealed. Construction joints and cracks not subject to movement may be overlaid but should the floor move in any way, these defects will reflect through the system. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, e.g. around ovens and freezers.

CLEAN UP

FIBFLOOR-MF can be removed from tools and equipment by Fibrex Paint Remover or thinner Immediately after use. Any hardened material will need to be removed mechanically.

TECHNICAL SPECIFICATIONS

The values shown are typical of results obtained in the laboratory at 27± 1°C. Actual performance values obtained on site may vary from those quoted.

FIBFLOOR MF

Medium to Heavy Duty Polyurethane Screed

Product # 114.12
Version no: 16.11.23

Tech Data

TECHNICAL SPECIFICATIONS

FIBFLOOR-MF	@27±1°C
Pot Life	15 mins
Foot traffic	72 hours
Heavy traffic	7 days
Bond Strength ASTM D 4541	>1.5 MPa
Compressive Strength BS6319-2, 28 days	50 MPa
Flexural Strength BS6319-3	18 MPa
Tensile Strength	7 MPa
Shore D Hardness	75
Abrasion resistance	Classified 'Special duty' under BS 8204: Part2:2002(9)
Slip resistance	Classified 'Satisfactory' under BS 8204: Part2:2002(9), wet and dry
Impact Resistance	Classified 'High Impact resistance' under BS 8204:Part1:1999
Coverage	Approximately 6KG/ m ² When applied at a thickness of @3mm thick

NOTE:

These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

CHEMICAL RESISTANCE (ASTM D 1308 At 24hr)

Chemical	Pass
Acetic acid (30%)	Pass (But Discolor)
Hydrochloric acid (10%)	Pass
Sulphuric acid (20%)	Pass
Ethylene glycol	Pass
Acetone	Pass
Castor oil	Pass
citric acid (60%)	Pass
Copper sulphate solution (30%)	Pass

CHEMICAL RESISTANCE (ASTM D 1308 At 24hr)

Olive oil	Pass
Lactic acid (25%)	Pass
Sugar solution (30%)	Pass
Sodium hydroxide (50%)	Pass
Vegetable oil	Pass
Sunflower seed oil	Pass

COLOR RANGE

FIBFLOOR-MF is available in six standard colors: Terracotta, Light grey, Green, Ivory and yellow. FIBREX floor systems are formulated to maximize the mechanical and chemical resistance properties, as result of this, these types of systems are discolored by ultraviolet light leading to a "yellowing effect". This yellowing effect is dependent upon the amount of UV exposure, both in terms of intensity and time, and is more noticeable with lighter colors.

PACKAGING

FIBFLOOR MF (A+B+C : 14 KG PACK)

1 Pack Cover 7m²@2kg/m²/mm (Scratch coat)
1 Pack Cover 2.33m²@6kg/m²/3mm (Top Coat)

Supply

4 Packs Set : 56 KG (A Part : 4 Nos, B Part : 4 Nos & C Part : 4 Nos)

Note: C Part colored.

STORAGE

Store the material at temperatures between + 10° C and + 35° C in originally sealed packages, the material can be stored for twelve months. But, before opening the drums, be assured that the temperature of the materials has the ambient temperature to avoid condensation. Open containers of material should be used quickly to avoid moisture contamination.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of the product should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

DISCLAIMER:

Fibrex Construction Chemicals pvt. Ltd. products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

FIBREX OTHER PRODUCTS – WE DO

