

**PRODUCT DESCRIPTION:** Fibfloor CEM is a self-leveling ECC underlayment flooring material for use where exceptional strength and toughness is needed and where the flooring has to be laid on damp surface. It is a three component water based epoxy system with selected cementitious components. Fibfloor CEM has excellent adhesion and provides good abrasion resistance on floors.

#### AREAS OF APPLICATION

- Sports Turf
- Paper Mills
- Bottling plants
- Power Houses
- Fertilizers Plants
- Automobile Plant
- Dairies & Breweries
- Kitchens & restaurant
- Petro Chemical Industries
- Pharmaceutical Industries
- Operation theatres & corridors in hospitals
- Pathological laboratories & Nursing homes
- Fermentation floors in tea garden and food processing units
- Nuclear plants, computer and control panel rooms
- Electric and electronic industries, picture tube manufacturing plants & textile mills

#### ADVANTAGE

- VOC Free
- Blistering Free
- Very high abrasion resistant
- Resists chemical, fungal & bacterial growth
- Easy to apply, flow-able consistency
- Excellent bond to concrete
- Extremely high early strength
- Easy to apply and can act as underlayment for any epoxy coating or flooring
- Provides monolithic surface with good aesthetics
- Ideally suitable where the sub flooring damp or expected to contain moisture

#### APPLICATION

##### SURFACE PREPARATION

- Prepare the surface by mechanical grinding or other suitable method.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air. Remove any old painting using a surface grinder.
- For best bond, concrete surface be prepared as per CSP 1, 2 or 3 before priming.

##### MIXING

- Add Component A to Component B (Hardener) of FIBFLOOR CEM slowly to ensure complete dispersion and slowly add Component C (Filler) of FIBFLOOR CEM to ensure complete dispersion. Mix for 5 - 10 minutes till a homogenous mix is obtained. The speed may be 300 - 500 rpm.

- Transfer this mix into a new container to avoid contamination of any unmixed Resin/Hardener. Then, wait for 2-3 minutes for the product to settle and allow the entrapped air to escape, before transferring the material onto the floor

#### PRIMING

- Prime concrete surface with **FIBFLOOR CEM PRIMER** and allow it to dry for 6 – 8 hrs @ 27°C.

#### APPLICATION

- Apply mix of FIBFLOOR CEM and spread evenly over the recommended area using a notch trowel of the appropriate notch size. The notch of the trowel should be double the desired thickness of the FIBFLOOR CEM top coat.
- Anchor FIBFLOOR CEM near walls, around columns / foundations and at edges of trenches / gutters / bays and expansion joints by cutting a groove of 3 mm, at least 20 mm inside the border. Roll the spike roller with a long handle on applied FIBFLOOR CEM to remove entrapped air. Ensure that the spike roller is not applied too long to leave any permanent indentation on surface and one should not use the spike roller after the topping has started to gel.
- Do not apply FIBFLOOR CEM over untreated expansion joints. Treat expansion joints with **FIBSEAL PU 21/22** and use **Fibseal JSE 700 or Fibseal JSP 700** for treating control and construction joints

#### CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

#### TECHNICAL SPECIFICATIONS

Theoretical Coverage FIBFLOOR CEM	3.5kg/m <sup>2</sup> /2mm
Mix Density ASTM D 1475	2.046g / cc
Mixing Ratio	(A:B:C) 10.23:1:43.5 (by weight)
Pot Life @ 25° C	40 - 50 Minutes
Application Temperature	10 - 40° C
Curing Time @ 25° C	Foot Traffic 24 Hrs Vehicle Movement 72 Hrs Full Cure 7 Days
Shrinkage, After 7 Days Curing	Nil
Flexural Strength, After 7 Days Curing ASTM D 790	22 ± 2 MPa
Adhesion to Concrete, 7 Days Curing ASTM D 7234	> 3 MPa Concrete Failure

# FIBFLOOR CEM

3 Component water based Moisture Insensitive Epoxy Self Leveling Flooring

Product # 114.11  
Version no: 16.11.23

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Tech

## TECHNICAL SPECIFICATIONS

Surface Hardness, Shore D After 7 Days Curing ASTM D 2240	75 ± 5
Compressive Strength, After 7 Days Curing ASTM C 109	60 ± 5 MPa
Abrasion Resistance (1000 g), After 7 Days Curing ASTM D 4060	55 ± 5 mg / 1000 Cycle
Water Absorption ASTM D 570	< 0.5 %
Tensile Strength, After 7 days of curing ASTM D 882	12 ± 2 MPa

## CHEMICAL RESISTANCE

Water	Pass
Vegetable Oil	Pass
Lube Oil	Pass
Diesel	Pass
Petrol	Pass
Kerosene	Pass
Xylene	Short Term
Milk	Pass
Citric Acid (15%)	Pass
Sodium Hydroxide (50%)	Pass
Salt	Pass
HCl (10%)	Short Term
H <sub>2</sub> SO <sub>4</sub> (40%)	Short Term
HNO <sub>3</sub> (10%)	Short Term

All tests done for 7 days at 25° C. Short term means for few hours and should be regularly cleaned.

## LIMITATIONS

- Do not apply FIBFLOOR CEM to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.
- Do not apply FIBFLOOR CEM over treated expansion joints.
- Minimum age of concrete should be 3 days old. Maximum moisture content permissible: 8 - 10%.
- Substrate temperature at the time of application should be between 10 to 30°C. Maximum permissible gradient of the floor is 5 %.

## PACKAGING

FIBFLOOR CEM (A+B+C : 25 KG PACK)

1 Pack Cover 7.14 m<sup>2</sup> @3.5kg/m<sup>2</sup>/2mm

### Supply

2 Packs Set : 50 KG (A Part : 2 Nos, B Part : 2 Nos & C Part : 2 Nos)

## STORAGE

Store the material at temperatures between + 10° C and + 35° C. In originally sealed packages, the material can be stored for 6-8 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.

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# Tech Data

## 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

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