

# FIBFLOOR-(CEM)

## Cementitious Epoxy Self Levelling Flooring

### DESCRIPTION

Fibfloor-(CEM ) is a self levelling epoxy-cement composite 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

- Paper Mills
- Dairies & Breweries
- Fertilizers Plants
- Petro Chemical Industries
- Automobile Plant
- Power Houses
- Sport Truf
- Bottling Plants

### ADVANTAGES

- Ideally suitable where the sub flooring damp or expected to contain moisture
- Jointless monolithic flooring.
- Excellent bond to concrete
- Extremely high early strength
- Good resistance to chemicals
- Easy to apply and can act as underlayment for any epoxy coating or flooring

### APPLICATION METHODOLOGY

Correct preparation of surface is essential. When applied over concrete, the surface must be sound, free from dust, laitance and other contaminants. Surface must be prepared by mechanical abrasion. For best bond, concrete surface must be slightly textured. Remove oil and grease by washing with liquid detergent followed by acid wash. Remove old painting if any, using surface grinder.

#### PRIMING

Generally Fibfloor-(CEM ) is self-priming and does not require primer. However, it is advisable to apply Fibfloor-(CEM) coat as primer in case of very old floor, which can extend the expected life span. It is important to wet the surface before applying Fibfloor-(CEM) coat or Fibfloor-(CEM). However standing water should be removed. Allow the primer to dry for 6 to 24 hours till it is dry.

#### MIXING

Mixing is carried out in a specially designed drum mixer or in a bucket using @ 1000 RPM Drilling machine fitted with paddle. Mix Fibfloor-(CEM) component A & C thoroughly by using a drill mixer till a homogeneous mix is obtained. Then add component B slowly, ensuring complete dispersion. After all of component B has been added, mix for a minimum of 5 to 10 minutes.



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One 14 kg pack of Fibfloor-(CEM) Floor will cover approx. 4 Sqm at 2 mm thickness. Keep screed points for a width of 1 to 2 meters wide using 2-3 mm thick wooden strips and pour the mixed material on the floor and spread it over the recommended area by using a notch trowel. Ensure that the material fills up all the area equally and apply spike-roller to remove all air bubbles. Ensure that the spike roller is not applied too long to leave permanent indentations on the surface. Anchor the material near floor to wall joints, around columns & foundations & at edges of trenches, gutters, bays & expansion joints. About 2 hrs after the application is completed screeding bars can be removed, cleaned and reused.

## FINISHING

Fibfloor-(CEM) can be applied on various substrates like concrete or Kota stone etc. However it is advisable to test the adhesion using a sample flooring. Any further coating or topping can be applied after 72 hours.

## CLEAN UP

Clean all tools immediately after use with Water. Do not allow the material to harden.

## TECHNICAL DATA

Coverage	:	4 m <sup>2</sup> per 14 kg at 2 mm thickness
Pot Life	:	40 to 50 minutes at 30°C
Curing Time	:	Foot Traffic after 24 hours Full Curing after 7 days
Shrinkage Factor	:	Negligible
Colour	:	Natural Grey
Compressive Strength	:	40-50 N/mm <sup>2</sup>
Flexural Strength	:	10 N/mm <sup>2</sup>
Tensile Strength	:	5 N/mm <sup>2</sup>
Bond Strength to Concrete	:	3.0 N/mm

## IMPORTANT INSTRUCTIONS

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 and 30°C

Maximum permissible gradient of the floor is 5 %

## STORAGE

6 - 8 months in original unopened containers. Do not expose to direct sunlight.

## PACKAGING

Fibfloor -(CEM) is available in a Project Standard.

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