

**PRODUCT DESCRIPTION:** Fibfloor-(PES) is a two component epoxy system designed to penetrate concrete surfaces. It fills surface pores resulting in improved wear resistance and lower absorption of water and salts. This system is supplied as a 50% solid formulation.

## AREAS OF APPLICATION

- Parking Decks
- Bridge Decks
- Industrial Floors
- Improve durability of dusting concrete surfaces

## ADVANTAGE

- Maximum penetration
- Improves wear and chemical resistance
- Reduces water and salt absorption
- Dustproof soft floor surfaces
- U.S.D.A approved

## APPLICATION

### SURFACE PREPARATION

Cement bound surfaces must be dry, firm, offer good traction, free from loose particles, dust and dirt and additionally free of oil, grease and other impurities which can adversely affect uniform adhesion. If considered necessary, the surface should be sand blasted, flame scaled, milled or ground. Iron and steel must be free of rust and scale and should be free from oil, dust and grease and other dirt particles. For best bond concrete surface must be prepared as per CSP 1,2 or 3.

### MIXING

Mixing is carried out in a specially designed drum mixer or in a bucket with the help of drill mixer fitted with paddle. Mix Fibfloor PES component A & B thoroughly with the help of mixer/drill mixer till a homogeneous mix is obtained.

### APPLYING AND LAYING

The mixed material should be applied to the prepared surface using roller or brush. Ensure mix material is spread evenly. 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.

### CLEAN UP

- Clean all tools immediately after use with Fibrex Paint Remover. Do not allow material to harden.

## TECHNICAL SPECIFICATIONS

Apparance component a	Epoxy Resin clear liquid
Apparance component b	Hardener clear to Brown liquid
Density of component a	1.01±0.02gm/cc
Density of component b	0.9±0.02gm/cc
Mix density ( a+b )	0.96±0.02gm/cc
Mixing ratio	( A : B ) 1 : 1 (by weight)
Consumption	300-350 gsm/m <sup>2</sup> & increase for high substrate porosity
Pot Life	30 min for 250 gms of Mass at 30°C
Systems	1 - 2 coats (dependent on substrate porosity)
Shelf life	12 months(after manufacture date and if store in +10°C to +35°C with un open condition)
Working time	30 - 40 min at 30°C
Compressive Strength	7 days: 60 - 70 Mpa
Tensile strength	14 -16 Mpa
Flexural strength	25 - 27 Mpa
Suitable for foot traffic	12 - 2 4hrs
Suitable for wheel traffic	48 hours
Total Solids	50% minimum
Flexibility 50 micron film	Excellent

## CHEMICAL RESISTANCE

Fibfloor PES is resistant to a variety of chemicals as given below :

Chemicals	Result
10% Acetic Acid	Pass
25% Nitric Acid	Pass
25% Ammonium Hydroxide	Pass
10% Sulfuric Acid	Pass
10% Citric Acid	Pass
10% Latic Acid	Pass
25% Phosphoric Acid	Pass
50% Phosphoric Acid	Pass
50% Caustic Soda (Sodium Hydroxide)	Pass
50% Sulfuric Acid	Pass
10% Hydrochloric Acid	Pass
50% Saturated Sugar	Pass

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Xylene, Concentrated bleach, Fruit juices, Beer, Wine, Crude oil/Gas, Petrol, Saturated Urea, Butanol/Skydrol, White spirit. Use sealer coat as a topcoat for additional chemical resistance

## LIMITATIONS

- Do not apply FIBFLOOR PES on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %. Consult fibrex before using FIBFLOOR PES in those areas.
- Do not install FIBFLOOR PES at temperature < 10° C or > 40° C.
- Do not apply **FIBFLOOR PES** 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 PES** over treated expansion joints.

## Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with moisture content over 4 %
- Floors with rising moisture problem
- Asphalt based floor (interior)
- Floors with a pull off strength less than 1.5 N/mm

## PACKAGING

FIBFLOOR PES (A+B: 6 KG PACK)

### Supply

2 Packs set : 12 KG (A Part : 2 Nos, B 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 12 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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## 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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## FIBREX OTHER PRODUCTS – WE DO

