

# FIBPOXY SL PU

3 Component Self Levelling PU Floor Topping

Product # 115.2  
Version no: 17.1.24

data  
Tech

**PRODUCT DESCRIPTION:** FIBPOXY SL PU is a three component self-levelling pu based topping, which is laid at a thickness from 0.8 mm to 1 mm. It is a three component pu system with selected aggregates, pu resin and a hardener. FIBPOXY SL PU provides a monolithic, smooth, non-porous, hygienic, chemical resistant floors which is easy to clean and maintain.

## AREAS OF APPLICATION

- Oil rigs
- Bottling plants
- Dairies & breweries
- Kitchens & restaurants
- Heavy traffic warehouses
- Pharmaceutical Industries
- Industrial and commercial floors
- Showrooms and shopping malls
- Automobile workshops and showrooms
- Operation theatres & corridors in hospitals
- Pathological laboratories & Nursing homes
- Nuclear plants, computer and control panel rooms
- Fermentation floors in tea garden and food processing units
- Electric and electronic industries, picture tube

## ADVANTAGE

- Resists chemical, fungal & bacterial growth.
- Very high abrasion resistant.
- Easy to apply, flow-able consistency.
- Provides monolithic surface with good aesthetics.

## APPLICATION METHODOLOGY

### 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.
- Ensure that the new concrete is cured for at least 28 days and surface moisture content is below 4 % before application.

### MIXING

- Add Component A to Component C (Filler) of FIBPOXY SL PU slowly to ensure complete dispersion and slowly add Component B (Hardener) of FIBPOXY SL PU 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 PU Base/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 FIBPOXY PU PRIMER allow it to dry for 6 – 8 hrs @ 27°C.

### APPLICATION

- Apply mix of FIBPOXY SL PU 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 FIBPOXY SL PU top coat.
- Anchor FIBPOXY SL PU near walls, around columns / foundations and at edges of trenches / gutters / bays and expansion joints by cutting a groove of 3 mm, atleast 20 mm inside the border. Roll the spike roller with a long handle on applied FIBPOXY SL PU 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 FIBPOXY SL PU 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 Fibrex Paint Remover. Do not allow material to harden.
- Service life of a floor will be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine.

### TECHNICAL SPECIFICATIONS

Theoretical Coverage FIBPOXY SL PU	1.7 kg/m <sup>2</sup> /1mm
Mixing Ratio (A:B:C)	2:1:3 (by weight)
Mix Density ASTM D 1475	1.54 ± 0.02 g / cc

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Pot Life @ 33° C	45-50 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
Surface Hardness, Shore D After 7 Days Curing ASTM D 2240	75 ± 5
Compressive Strength, After 7 Days Curing ASTM C 109	50 ± 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	10 ± 2 MPa
Elongation ASTM D 412	10-15 %

## 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 FIBPOXY SL PU 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 FIBPOXY SL PU in those areas.
- Do not apply FIBPOXY SL PU 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 FIBPOXY SL PU over treated expansion joints.
- In common with all pu material, some light shades may fade in the long term, when placed in adverse exposed conditions. Such changes (discoloration) if any, are normal and has no effect on the performance of FIBPOXY SL PU

## 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<sup>2</sup>

## COLOR RANGE

FIBPOXY SL PU is available in various attractive colors (Fibrex shade card). Every effort is made in manufacturing to maintain consistency of color, however exact color can vary from one batch to other batch.

## PACKAGING

FIBPOXY SL PU

- A part (PU Base ) - 20 Kg bucket
  - B part (PU Hardener ) - 20 Kg bucket
  - C part (Selected Aggregates) - 20 to 25Kg bags
- Or Project Standards

## STORAGE

Store the material at temperatures between + 10° C and + 35° C. In originally sealed packages, the material can be stored for 10-12 months. Be assured open drums/buckets/bags 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, 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).

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Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to this type of 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 any of the component products 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.

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## FIBREX OTHER PRODUCTS – WE DO

