

PRODUCT DESCRIPTION: FIBPOXY PU is two component fast cured aromatic 100 % solids, no VOC (Volatile organic compound) Polyurethane elastomeric coating. It is designed to provide excellent resistance to abrasion, corrosion and many chemicals including selected hydrocarbon solvents. It can be applied as a stippled finish. It is an ideal coating for concrete restoration water proofing as well as very effective for Anticorrosion of steel.

AREAS OF APPLICATION

FIBPOXY PU can be used to rehabilitate and protect concrete or steel surfaces, which have been damaged from mechanical, chemicals or temperature related abuse. It can be used as protective, elastomeric membrane coating.

- Abrasion Resistance Coating for engineering shop-floors shows rooms, pharms floors & mining industry
- Marine and offshore installations- Jetty, Helidecks, Boat landing
- Canals and tunnel in hydroelectric projects
- Tank coatings for selected chemicals
- Internal and external of pipelines
- Best suitable for field joint on site application
- Truck Bed liner system under carriage, Ambulance interiors, Tankers
- Waterproofing: interior or exterior
- Waste water Treatment Plants
- Airport Hangers
- Cold storage facilities
- Food processing plants & Fast food facilities
- Bottling and canning facilities
- Parking Decks, Ramps, walk ways and Balcony Decks
- Protective coatings in chemical plants, nuclear installations, power plants, etc.
- Encapsulation of Asbestos and other environmentally undesirable materials
- Cooling towers

ADVANTAGE

- Fast setting
- Excellent thermal stability
- Excellent Corrosion Protection
- Superior abrasion resistance
- Low permeation Rate
- Zero VOC- environmental friendly
- Seamless, Resilient, Flexible Elastomeric
- Applicable in Sub-Zero Temperature
- Chemical, Water and UV Resistance

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.

- 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 B (Hardener) of FIBPOXY PU slowly to ensure complete dispersion. Mix for 2 - 3 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 Resin/Hardener.

For Plane and Lining Coating:

PRIMING

- Prime concrete surface with FIBFLOOR PRIMER/PRIMER 10/PRIMER 12 and allow it to dry for 6 – 8 hrs @ 27°C.

APPLICATION

- Apply mix of FIBPOXY 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 and use brush or roller for lining.
- Anchor FIBPOXY PU 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 FIBPOXY 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 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.

For Textured coating

PRIMING

- Prime concrete surface with FIBFLOOR PRIMER/PRIMER 10/PRIMER 12 and allow it to dry for 6 – 8 hrs @ 27°C.

BASE COAT

- Apply mix of FIBFLOOR SL UL 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.

Aggregates

- ANTISLIP AG: A broadcast system of pure silica aggregates to make textured surface. Sprinkle ANTISLIP AG all over the applied (FIBFLOOR SL UL when tacky) surface and wait for its dry(24 hrs at 30°C).After dry remove the excess amount of ANTISLIP AG by brush.

FIBPOXY PU

100% solid polyurethane elastomer coating

Product # 114.22

Version no: 16.11.23

Technical Data

Top Coat

FIBPOXY PU

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.
- 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

Apparance component A	Colored liquid
Apparance component B	Brown liquid
Mixing ratio (A : B)	7 : 1 (by weight)
Mix density (A+B)	1.38±0.02gms/cc
Adhesion to concrete (to ASTM D 4541)	> 1.5 MPa
Abrasion Resistance (1000 g)	300± 5 mg / 1000 Cycle
Shore d hardness (astm d-2240)	60
Volume solids %	100
Crack bridging (EN1062-7)	0.6mm
Fire resistance (EN13501-1)	B _{F1} -s1
Complies to	ASTM C 957
Tensile strength (ASTM D412)	>15 MPa
Permeability water (EN1062-3)	w<0.14kg/m ² .h0.5
Moisture vapor permeability(astme96/e96m)	0.06g/h.m ²
Slip resistance (BS7976-2)	>41 after dry
Pot life	15-20 mins at30°C
Surface dry	30 - 45min at30°C
Thermal resistance	68°C soft
UV resistance	Outstanding UV resistance and weather stability
Curing (30°C)	Light traffic - 12hrs,heavy traffic 24 hrs
Coverage(For Textured coating)	1.1-1.2kg/m ² for 1mm DFT
Coverage(For Plane and Lining Coating)	280/300 gms/m ² /250 micron thickness

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

* Prolonged contact with chemicals will affect the colour of the flooring. Wash off spillage with water. Regular washing of floors with detergent water is recommended 7 days after application time. Good housekeeping such as regular washing will prolong the life of the floor.

Chemicals	Result @30° C
Hydrochloric acid (10%)	Short time
Nitric acid (15%)	Short time
Sulphuric acid (10%)	Pass
Citric acid (10%)	Short time
Sodium Hydroxide (50%)	Short time
Ammonia (10%) Soln.	Short time
Bleach concentrate	Short time
Urea (Saturated)	Pass
Sugar (Saturated)	Pass
Sodium Chloride (Saturated)	Pass
Methanol	Short time
Butanol	Short time
Mineral spirits	Pass
Xylene	Short time
Lubrication oil	Pass
Gasoline	Short time
Diesel	Pass
Petrol	Pass

Above result may be change at chemical concentrations and temperature change.

LIMITATIONS

- Do not apply FIBPOXY 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 PU in those areas.
- Do not install FIBPOXY PU at temperature < 10° C or > 40° C.
- Do not apply FIBPOXY 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 PU 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)
- 2 Floors with a pull off strength less than 1.5 N/mm

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Data
Tech

PACKAGING

FIBPOXY PU (A+B : 6 KG PACK)

1 Pack Cover 5m²@1.2kg/m²/mm (Textured coat)

1 Pack Cover 20m²@300gms/m²/250micron(Plane or Lining Coat)

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 twelve months. But before opening the drums/buckets. 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, 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. 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

Fibfloor SLT PU is formally known as Fibpoxy PU .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

