

FIBFLOOR SL UL

3 Component Epoxy Based Self-Levelling Underlayment Screed

Product # 114.4
Version no: 15.06.24

Technical Data

PRODUCT DESCRIPTION: FIBFLOOR SL UL is a three component epoxy system with selected aggregates, epoxy resins and amine adduct mma (Methyl Methacrylate) blended hardener. FIBFLOOR SL UL provides a hard, smooth, impervious and easy to clean surface. FIBFLOOR SL UL has an excellent adhesion to any Epoxy / PU based topping.

AREAS OF APPLICATION

- Auto Mobile
 - Assembly Units
 - Pharmaceuticals
 - Automobile Showroom
 - Particularly in Laboratories
 - Food Processing unit and other manufacturing units
- Use over various substrates like concrete, kota stone, etc.

ADVANTAGE

- High strength.
- Seamless and durable.
- Quick and easy to apply.
- Cost effective, hygienic, easy to clean and economical.
- Good chemical resistance to wide range of chemicals.

APPLICATION

SURFACE PREPARATION

- Prepare the surface by mechanical grinding or other suitable methods.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air by appropriate method and tools. Remove old painting using surface grinder.
- For best bond, concrete surface must be prepared as per CSP 1, 2 or 3 before priming.
- Apply FIBFLOOR PRIMER/PRIMER 10/ PRIMER 12, two component epoxy primer as per the standard methodology and allow it to dry before application of FIBFLOOR SL UL.
- Ensure that the new concrete is cured for at least 28 days and surface moisture content is below 4 % before application.

MIXING

- Add Component C (Filler) of FIBFLOOR SL UL to the component A (Resin) and stir thoroughly with the help of a drill mixer till homogenous mix is obtained.
- To this homogenous mixture, add component B (Hardner) slowly in the above compound and ensure complete dispersion. Mix for 5 - 10 minutes till 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 PRIMER 10/12 or FIBFLOOR PRIMER** and allow it to dry for 6 – 8 hrs. @ 27°C.

APPLICATION

- Lay FIBFLOOR SL UL after mixing is over. Spread mix evenly over the recommended area using a steel trowel with the appropriate notch size. The notch of the trowel should be double the desired thickness of the FIBFLOOR SL UL coat.
- Anchor FIBFLOOR SL UL near walls, around columns / foundations and at edges of trenches / gutters / bays and expansion joints by cutting a groove of 3mm, at least 20 mm inside the border.
- Use a spiked roller with long handle on the applied FIBFLOOR SL UL 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 SL UL 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	1.5-1.55kg/m ² /mm & 3-3.1kg/m ² /2mm
Pot Life	50 - 60 Minutes
Mixing Ratio	3.1:1:10(By weight)
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	23 ± 2 MPa
Adhesion to Concrete, 7 Days Curing ASTM D 7234	> 3 MPa Concrete Failure

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Surface Hardness, Shore D After 7 Days Curing ASTM D 2240	80 ± 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
Mix Density ASTM D 14751	1.65 - 1.71 ±0.02 g /cc

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 SO (40%)	Short Term
HNO (10%)	Short Term

LIMITATIONS

- Do not apply FIBFLOOR SL UL 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 SL UL in those areas.
- Do not apply FIBFLOOR SL UL 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 install FIBFLOOR SL UL at temperature < 10° C or > 40° C.
- Do not apply FIBFLOOR SL UL over treated expansion joints.
- In common with all epoxy material, some light shades may fade in the long term, when placed in adverse exposed condition.

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

PACKAGING

FIBFLOOR SL UL (A+B+C : 25 KG PACK)

1 Pack Cover 16.13 m² @1.55kg/m²/mm

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 twelve months. Open containers/buckets 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 to resin-based materials. Always wear gloves and eye/face protection as necessary.

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.

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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.

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

