

TECFLOOR[®] UL

Epoxy Based High Strength Self-Smoothing Underlayment for 2 mm-5 mm Thickness



TECFLOOR[®] UL is an epoxy based high strength three components underlayment system comprising of resin, hardener & filler. TECFLOOR[®] UL has special properties to withstand against chemical attack, wear & tear impacts.

Uses

For leveling floors before the application of epoxy self-leveling top coat, epoxy coatings & PU coatings.

Benefits

- Cost effective for building thicker system
- Quick and can be easily applied by spatula or trowel
- High strength
- High impact resistance
- Long lasting & durable

Properties

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| Mixed Density | Approx. 1.9 gm/cc |
| Pot Life @ 30°C | Approx. 50 minutes |
| Touch Dry Time | 4-5 hours |
| Complete Cure | 7 days |
| Application Thickness | 2-5mm |
| Compressive Strength, 7days (BS 6319 Pt. 2) | 80 N/mm ² |
| Flexural Strength, 7days (BS 6319 Pt. 3) | 22 N/mm ² |
| Tensile Strength, 7 days (BS 6319 Pt. 7) | 10 N/mm ² |
| Adhesion Strength (ASTM D 4541) | 1.5 N/mm ² (Concrete Failure) |

Instructions for Use

Preparation of the Substrate

Surface Preparation

It is essential that TECFLOOR[®] UL is applied to sound, clean and dry concrete surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product. Surface to be made rough by using tools like grinder / scarifier / shot blasting machine etc.

New Concrete Floors

New concrete should be at least 28 days old with a maximum moisture content not exceeding 5%. Laitance deposits on new concrete floors are best removed by grinding, scarifying or shot blasting.

Old Concrete Floors

Mechanical cleaning methods are strongly recommended on old concrete floors particularly where heavy contamination by oil and grease has occurred or existing coatings are present.

Priming

TECFLOOR[®] PR shall be used as primer to seal the pores on surface.

Mixing

Empty the entire resin, hardener component into the vessel and mix until homogeneous mix formed. Then while mixing slowly, add the fillers. Mixing of all components shall continue for a further 3-4 minutes, until such time that a homogenous mix is achieved by using suitable mechanical mixing equipment.

Application

The mixed TECFLOOR[®] UL should be spread to uniform thickness on the prepared surface using a notched trowel of required thickness. The subsequent use of a spiked roller eliminates air entrapment.

Specification Clause

The epoxy underlay TECFLOOR[®] UL shall achieve a minimum compressive strength of 80 N/mm², flexural strength of 22 N/mm² and tensile strength of 10 N/mm² in 7 days. The underlay shall have nil water absorption. The adhesion strength of the epoxy underlayment shall be greater than the tensile strength of concrete.

Limitations

TECFLOOR[®] UL should not be applied when temperatures below 5°C and falling or when the relative humidity is more than 80%. Substrates should be fully dry and not suffer, or be likely to suffer, from rising dampness. If necessary, suitable damp-proof membranes should be installed to prevent this. Substrates should not have moisture content greater than 5% at any time during the installation.

Health & Safety Instructions

Contact with skin and eyes should be avoided. Use of gloves, goggles and masks are recommended. If contact with skin occurs it should be washed with plenty of water and soap. Do not use solvent. In case of eye contact wash with clean water and seek medical advice.

Cleaning

All tools and equipment's should be cleaned with solution immediately after use. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

Storage

TECFLOOR[®] UL has a shelf life of 12 months when stored in a dry place below 30°C in its original & unopened condition. Keep the container of TECFLOOR[®] UL away from direct heat.

Packing

TECFLOOR[®] UL: 12 ltr pack

TECFLOOR[®] PR: 1 & 4 ltr packs

Cleaning Solution: 5 & 20 ltr packs

Coverage

TECFLOOR[®] UL: 6 m² per pack at 2 mm thickness
: 4 m² per pack at 3 mm thickness

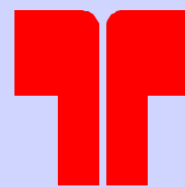
TECFLOOR[®] PR: 5.5 - 6.5 m²/ltr

However, the actual coverages will vary depending on the substrate conditions.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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