

## Epoxy Self Levelling Underlay for Epoxy and Polyurethane Floors

### DESCRIPTION

**DANOFLOOR UL EP** is solvent free epoxy based three component self-smoothing underlay and leveling screed, for use in conjunction with TIKIDAN range of epoxy and polyurethane floor coatings and floor topping systems.

### ADVANTAGES

- Seamless application
- Good levelling and smoothing ability
- Excellent bonding to primed surface and epoxy/polyurethane overlay
- Exhibits good mechanical properties
- Environment friendly system
- Excellent abrasion resistance

### USES

**DANOFLOOR UL EP** underlay and levelling screed system is used to seal undulations/profile imperfections on floor creating smooth and levelled surface before application of epoxy / polyurethane floor coatings and floor toppings in:

- Automobile and engineering industries
- Pharmaceutical, food, beverage and dairy industries
- Formulation and assembly units
- Workshops, garages and warehouses
- Convention centre, shopping mall and super market
- Trafficable areas and parking decks
- Chemicals and process industries

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

The surfaces must be sound, clean, dry, and free from cracks, undulations, oil, grease, laitance, loose particles.

New concrete surfaces should be minimum 28 days old and should be sound with tensile strength >1.5 mPa. The residual moisture content in the substrates should be <4%.

All joints in the substrate should be maintained while laying **DANOFLOOR UL EP** underlayer system.

#### SURFACE PRIMING

Apply **DANOFLOOR PRIMER EP** epoxy based primer @6 to 8 m<sup>2</sup>/Kg., on well prepared substrate covering the entire area uniformly. Allow the primer to dry. On very absorbent or porous surface, it is necessary to apply second coat of primer.

Refer TDS of **DANOFLOOR PRIMER EP** for technical and application details.

#### APPLICATION

**DANOFLOOR UL EP** is supplied as pre-weighed three components, ready to use at site.

The components of **DANOFLOOR UL EP** shall be mixed by taking **DANOFLOOR UL EP Resin** component in a clean container followed by addition and gradual mixing of **DANOFLOOR UL EP Hardener** component using slow speed heavy duty electric stirrer to achieve homogeneous mix. Finally, **DANOFLOOR UL EP Filler** component is added gradually under continuous stirring until homogeneous mix is obtained.

The prepared mix of **DANOFLOOR UL EP** is spread using serrated toothed trowel to desired thickness (1mm to 3mm). Immediately roll the spread material using spike roller to remove air entrapment and avoid pinholes formation. Allow the applied system to cure for 24 hours before application of overlay.

## APPLICATION DATA

<b>Mix Ratio PBW</b> Resin: Hardener: Filler (For 1mm thickness)	100 : 100 : 150
<b>Mix Ratio PBW</b> Resin: Hardener: Filler (For 2 to 4mm thickness)	100 : 100 : 400
Pot life at 30°C	≈ 45 Minutes
<b>Curing Schedule</b> Foot traffic / Light load Full traffic load	24 to 48 Hours 7 Days
*Total Mix Required to Cover 10m <sup>2</sup> Area @1mm @ 2mm @ 3mm	15 Kg. to 16 Kg. 30 Kg. to 32 Kg. 45 Kg. to 48 Kg.

\*Coverage / Consumption is approximate and it depends upon the site conditions and surface porosity at the time of application.

## PROPERTIES OF APPLIED PRODUCT

Properties	Values	Test Standard
Compressive Strength	>60N/mm <sup>2</sup>	ISO 604
Flexural Strength	>45 N/mm <sup>2</sup>	ISO 178
Tensile Strength	>22 N/mm <sup>2</sup>	ISO 527
Bond Strength	>3 N/mm <sup>2</sup> (Concrete Failure)	ASTM D4541
Impact Resistance	>8 Joules	ASTM D2794

\*Properties tested under laboratory condition for specimens cured for 15days @30°C. Properties may vary based on actual site conditions.

## CLEANING

Immediately after application of **DANOFLOOR UL EP**, use suitable solvent for cleaning application tools.

## SUPPLY

**DANOFLOOR UL EP** is supplied as a three-component comprising of Resin, Hardener and Filler. Resin Component is available in 5 Kg. pack size, Hardener Component is available in 5 Kg. pack size and Filler Component is available in 10 Kg. pack size. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Available Packing	Resin	Hardener	Filler
Pack Size	5 Kg.	5 Kg.	10 Kg

## STORAGE

**DANOFLOOR UL EP** must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight, and children.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **DANOFLOOR UL EP**.

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