

Aqueous Epoxy-Cementitious Based Self Levelling Underlay

DESCRIPTION

DANOFLOOR UL EC is aqueous epoxy-cementitious 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

- Quick and economical application
- Good levelling and smoothing ability
- Excellent bonding to primed surface and epoxy/polyurethane overlay
- Suitable for application on damp/green concrete
- On application, it creates temporary moisture barrier on damp/green concrete surfaces Preventing osmotic blistering of epoxy/polyurethane floor coatings and floor toppings over damp substrates
- Exhibits good mechanical properties
- Environment friendly system

USES

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

- Automobile and engineering industries
- 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
- Pharmaceutical industries
- Power plants

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

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

New concrete surfaces should be minimum 7 days old and should be sound with tensile strength >1.5 mPa.

All joints in the substrate should be maintained while laying **DANOFLOOR UL EC** underlay system.

SURFACE PRIMING

Apply **DANOFLOOR PRIMER EPW** water based epoxy primer @ 3 to 5 m²/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.

APPLICATION

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

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

The prepared mix of **DANOFLOOR UL EC** is spread using serrated toothed trowel to desired thickness. Immediately roll the spread material using spike roller to remove air entrapment and avoid pin hole formation. Minimum 2mm thickness is recommended for better performance.

Allow the applied system to cure for 24 hours before application of overlay.

Ensure that the entire prepared mix of **DANOFLOOR UL EC** is used within its pot life (10 to 20 minutes).

APPLICATION DATA

Mix Ratio PBW (Resin: Hardener: Filler)	2.10 : 2.10 : 20
Pot life at 30°C	10 to 20 Minutes
Curing Schedule	
Foot traffic / Light load	24 to 48 Hours
Full traffic load	7 Days
Coverage per Pack @ 2mm	6m ²

PROPERTIES OF APPLIED PRODUCT*

Properties	Values	Test Standard
Compressive strength	>45 N/mm ²	ISO 604
Flexural strength	>18 N/mm ²	ISO 178
Bond strength	>2.5 N/mm ² (Concrete Failure)	ASTM D4541
Shore D	> 70	ISO 868

*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 EC**, use water for cleaning application tools.

STORAGE

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

SUPPLY

DANOFLOOR UL EC is supplied in 24.20 Kg. pack. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Packing : 24.20 Kg.

Property	Resin	Hardener	Filler
Pack Size	2.10 Kg.	2.10 Kg.	20 Kg.

SAFETY PRECAUTIONS

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

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Note: Properties subject to change as per specific requirement. Field service where provided does not constitute supervisory responsibility. Suggestions made by TIKIDAN either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not TIKIDAN, are responsible for carrying out procedures appropriate to a specific application. TIKIDAN reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order

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