

DANOCRET I-PROTECT FLEX



2K Polymer Modified Cementitious Flexible Waterproofing Coating

DESCRIPTION

DANOCRET I-PROTECT FLEX is a two component acrylic polymer modified cementitious flexible waterproofing membrane coating for waterproofing and protection of cementitious surfaces.

It consists of specially graded cementitious powder as Component-A and liquid Acrylic co-polymer as Component-B in pre-pack form, requiring mixing of both the components in proportion at site and application using stiff bristle brush to required thickness in two coats.

USES

- **DANOCRET I-PROTECT FLEX** is used to waterproof and protect concrete structures, masonry walls, renders and cementitious screeds.
- **DANOCRET I-PROTECT FLEX** is ideal for waterproofing water retaining bodies such as, concrete water tanks, reservoirs, swimming pools, etc., ensuring water tightness.
- **DANOCRET I-PROTECT FLEX** is used to waterproof and effectively protect concrete structures such as terraces, pre-cast elements, retaining walls, bathrooms, toilets, and others from deleterious effects of corrosive atmosphere, seawater, chlorides, sulphates, etc.

ADVANTAGES

- Suitable for application directly on to the damp concrete and masonry surfaces.
- Exhibits good resistance to diffusion of CO₂, SO₂, Chlorides and Sulphates.
- Non-toxic - suitable for waterproofing concrete potable water tanks.
- Breathable - allows for transmission of water vapour from interior of building through concrete and masonry surfaces.

- Exhibits excellent adhesion with most of the construction surfaces - bonds well to both porous and nonporous surfaces.
- Forms tough and flexible impermeable film.

PROPERTIES OF COMPONENTS

Property	Component-A	Component-B
Colour	Grey	Milky White
Density, g/cm ³	1.40 ± 0.10	1.01 ± 0.01
% Solid, (by Weight)	100, (-)0.50	30 ± 1

APPLICATION DATA

Property	Value
Mix Ratio By Weight Component-A Powder : Component-B Liquid	2:1
Pot Life @ 30°C	Approx. 30 Minutes
Application and Substrate Temperature	Between 5 to 40°C

PROPERTIES OF MIX

Property	Value
Adhesion to Concrete @28 days	≥1N/mm ²
Elongation @28 days @1mm	100 ± 15 %
Coverage per Pack @ 1mm *	9 to 11 m ²

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

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surface to be waterproofed must be clean and sound free of loose dust, laitance, foreign particles, curing compound, mould release agent, grease and other contaminants that may compromise the adhesion of treatment adversely.

Spalled concrete or honeycombed surface should be removed to sound concrete and repaired using polymer modified cementitious mortar modified with **DANOCRET AR**

Cracks should cut to V-shape and filled using cementitious mortar modified with **DANOCRET AR**.

Never use **DANOCRET I-PROTECT FLEX** on unsound surface, brick bat coba or lime mortar.

MIXING OF COMPONENTS

The supplied quantity of Component-B liquid of **DANOCRET I-PROTECT FLEX** is poured into a separate clean plastic or metal bucket/drum followed by gradual addition and mixing of supplied quantity of Component-A powder of **DANOCRET I-PROTECT FLEX** using slow speed drilling machine attached with agitator blades to obtain uniform lump free brushable consistency mix.

Do not mix at high speed, as it will drag the air in to the mix resulting in air entrapment.

Never add or re-temper the mix with water.

WATERPROOFING COATING APPLICATION

Prior to application of **DANOCRET I-PROTECT FLEX** as waterproofing membrane coating, for best results, it is recommended to moisten the surface by sprinkling water. Avoid formation of puddles. Remove excess / standing water from the surface by soaking with sponge or cloth.

Apply the prepared mix using a stiff bristle brush or trowel in two coats to achieve 1mm thickness, the second coat applied within 24 hours of application of dry first coat or as soon as the first coat has reached touch dry state. (Drying time is 4 to 8 hours @ 30°C).

Never exceed 1mm thickness in single application as it may result in cracking in dry film.

Keep on stirring mix intermittently during application to maintain suspension of mineral powder in mix.

Allow the **DANOCRET I-PROTECT FLEX** to dry before covering with protection screed. For better results, broadcast coarse sand on wet surface of final coat for better adhesion of protection screed.

CLEANING

Clean tools and equipment with water. Once dried, the cured film can only be removed mechanically.

SUPPLY

DANOCRET I-PROTECT FLEX is supplied in 15 Kg. pack size.

Packing: 15 Kg.

Component-A Powder	10 Kg.
Component-B Liquid	5 Kg.

STORAGE

DANOCRET I-PROTECT FLEX must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight and humid environment. Once opened, use as soon as possible. The shelf life is 6 months when stored under the covered shed in sealed unopened container.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **DANOCRET I-PROTECT FLEX**. Use of gloves and goggles is recommended during application. Avoid contact with skin. For further detail, refer to Material Safety Data Sheet. **DANOCRET I-PROTECT FLEX** components are non-flammable.

VERSION: R3, 202002

Disclaimer: The technical information, and, in particular, the recommendations relating to the application and end-use of Tiki Tar Danosa (TIKIDAN) products, are given in good faith based on TIKIDAN's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with TIKIDAN's recommendations. The information herein is of a general nature and no assumption can be made as to a product's suitability for a particular use or application and no warranty in respect of merchantability or of fitness for a particular purpose can be inferred from this information. The user alone is fully responsible for the product's suitability for the intended application and purpose. TIKIDAN reserves the right to change the properties of its products.

Note: 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. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,
Maharashtra, India. T: +91 22 4126 6699

E: info@tikidan.in | W: www.tikidan.in

