

# 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 CO<sub>2</sub>, SO<sub>2</sub>, 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 <sup>3</sup>	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 <sup>2</sup>
Elongation @28 days @1mm	100 ± 15 %
Coverage per Pack @ 1mm *	9 to 11 m <sup>2</sup>

\*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 12 months when stored under the covered shed in sealed packing and protected from humid environment.

### 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.

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## 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](mailto:info@tikidan.in) | W: [www.tikidan.in](http://www.tikidan.in)



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