

DANOCRET 2K ELASTIC

2K Polymer Modified Cementitious Elastomeric Waterproofing Coating

DESCRIPTION

DANOCRET 2K ELASTIC is a two component acrylic polymer modified cementitious elastomeric coating for waterproofing and protection of cementitious and similar 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.

DANOCRET 2K ELASTIC is not suitable as a trafficable waterproofing membrane. Treatment with **DANOCRET 2K ELASTIC** should always be covered with a cement-sand protection screed or tiles or suitable protection media to protect the treatment from puncture damage or mechanical abuse.

USES

- **DANOCRET 2K ELASTIC** is used to waterproof and protect concrete and masonry structures.
- **DANOCRET 2K ELASTIC** is ideal for waterproofing wet areas and water retaining bodies such as underground and overhead concrete swimming pools, sumps, water tanks, wash areas, toilets, bathrooms, etc., ensuring water tightness.
- **DANOCRET 2K ELASTIC** is used to waterproof and effectively protect concrete structures such as foundations, terraces, balconies, retaining walls, lift pits, 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.
- Forms tough and elastic impermeable film.

- 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.
- Efflorescence free.
- Excellent water tightness against active & passive water pressure.

APPLICATION DATA

Property	Value
Mix Ratio by Weight Component-A Powder : Component-B Liquid	2 : 1
Pot Life @ 30°C	30 to 45 Minutes
Mix Density	1.50 ± 0.20 gm/ml
Application/Substrate Temperature	Between 5 & 35°C
Theoretical Coverage @1mm d.f.t*	0.60 - 0.75 m ² /Kg.
Re-Coating Time Minimum Maximum	4 Hours 24 Hours

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

PROPERTIES OF MIX

Property**	Value	Standard
Adhesion to Concrete	≥2 N/mm ²	ASTM D4541
Tensile Strength	≥2 N/mm ²	ASTM D412
Elongation	200 ± 10 %	ASTM D412
Crack Bridging	≥2mm	ASTM C836
Water Absorption by Weight	≤2 %	ASTM D570
Resistance to Water Penetration @ 5 bar	Passes	DIN 1048:Part 5
Shore A Hardness	≥40	ASTM D2240
Water Vapour Transmission	≤30 g/m ² /day	ASTM E96

** After 7 days of moist curing.

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 adhesion of treatment adversely.

Spalled concrete or honeycombed surface or patches should be removed to sound concrete and repaired using cementitious mortar modified with acrylic polymer **DANOCRET AR** in following proportions (Cement : Zone II Quartz Sand : **DANOCRET AR** : Water = 10 : 30 : 2 : 1 to 2 by weight),

Cracks should cut to V-shape and filled using cementitious mortar modified with acrylic polymer **DANOCRET AR** in following proportions (Cement : Zone II Quartz Sand : **DANOCRET AR** : Water = 10 : 30 : 2 : 1 to 2 by weight),

All corners and junctions should be provided with a 0.63 mm thick & 120mm wide thermoplastic elastomer coated alkali resistant waterproofing tape **TIKIFLEX 1001**, the fabric of waterproofing tape embedded between the coats of **DANOCRET 2K ELASTIC**.

Never use **DANOCRET 2K ELASTIC** on unsound surface, brick bat coba or lime mortar.

MIXING OF COMPONENTS

The mixing should be carried out with full packs only. Never mix part quantities.

Pour Component-B liquid of **DANOCRET 2K ELASTIC** into a separate clean bucket / drum followed by gradual addition and mixing of Component-A powder of **DANOCRET 2K ELASTIC** using slow speed drilling machine attached with agitator blades to obtain uniform and lump free brushable slurry mix.

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

WATERPROOFING COATING APPLICATION

Prior to application of **DANOCRET 2K ELASTIC**, site trials should be carried to arrive at the actual coverage or consumption of material and number of coats required to build the desired thickness on horizontal and vertical surfaces.

Prior to application of **DANOCRET 2K ELASTIC**, it is recommended to moisten or saturate the surface by sprinkling water to prevent rapid or flash drying of the coating. Avoid formation of puddles. Remove excess or standing water from the surface by soaking with sponge or cloth.

Apply the prepared mix using a stiff bristle brush or trowel in two or multiple coats to achieve desired thickness, the subsequent coats applied at right angles to the direction of previous coat and within 24 hours of application of previous coat or as soon as the previous coat has reached touch dry state. (Drying time is 4 to 8 hours @ 30°C).

Do not apply, if rain is anticipated or when it is raining.

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.

If during the application the mix stiffens, discard the mix, never add or re-temper the mix with water.

Allow the coating of **DANOCRET 2K ELASTIC** 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 2K ELASTIC is supplied in 15 Kg. pack.

Packing: 15 Kg.

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

STORAGE

DANOCRET 2K ELASTIC must be stored between 5°C and 30°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 2K ELASTIC**. Use of gloves and goggles is recommended during application. **DANOCRET 2K ELASTIC** components are non-flammable, non-toxic & present no health hazard.

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