

DANOCOAT IM 400

2K Special Polyurea based Elastomeric Waterproofing Coating

DESCRIPTION

DANOCOAT IM 400 elastomeric membrane is a liquid applied 2-component coating based on Polyurea chemistry that cures by reaction to give a continuous film, which is rubbery and elastic. It contains leafing pigments, with reinforcing properties. **DANOCOAT IM 400** is a very high solids coating designed to give a high-build film. It can be brush or roller or spray applied (with airless spray equipment) or even troweled.

DANOCOAT IM 400 cures to a permanently flexible seamless membrane. Since it is elastomeric, it not adversely affected by extremes of temperature consequently it does not crack at low temperatures or suffer thermal blow at elevated temperatures.

DANOCOAT IM 400 is available in following grades:

- Self-leveling/squeegee
- Spray
- Thixotropic/trowel
- Roller

DANOCOAT IM 400 white is more suited for roof/terrace which is exposed to UV rays although it has low colour stability. For additional protection from UV rays, use UV resistant coating **DANOCOAT PAS 600 / DANOCOAT PAS 700** (refer technical data sheet).

ADVANTAGES

DANOCOAT IM 400 offer the following benefits:

- High temperature stability.
- Low temperature flexibility down to (-)15°C.
- Dirt pick-up resistance.
- Excellent adhesion to polyurethane foam and many other substrates.
- Easy application by spray, brush, or roller-thus lowering application costs.
- Low toxicity and odour.

- Good adhesion with many types of substrates.
- Withstands impact from foot or vehicle traffic and other abuse without rupturing.

PROPERTIES

PROPERTIES	VALUES
Colour	White / Gray /Light Gray/ Medium Gray / Green.
Pot Life at 23°C	≈30 minutes
Hard Dry at 30°C	8 to 10 hours
Full Cure at 30°C	7 days
Recoat ability at 30°C	4 to 5 hours
Finish	Smooth and matt
Theoretical Coverage (Varies with roughness or porosity of surface)	1.65 to 1.80 Kg./m ² @ 1mm
Tensile Strength at 25°C (ASTM D412)	>5 MPa
Shore A Hardness	>55
Elongation at 25°C (ASTM D412)	>400%
Recommended Coats	2 to 3 coats depending upon the substrate

USES

- Roofs (Flat and Sloping), Balconies, and Concrete Decks.
- Metal Deck Roofs.
- Pre-Cast Concrete Structures.
- Terraces, Podiums, Water Tanks, Terrace Garden, Flyover, Bridge Decks,
- Basement and Retaining Wall

APPLICATION

SURFACE PREPARATION

New concrete should be ≥28 day old and sound with moisture content <5%.

Remove all laitance, foreign matter, dirt, oil, grease and loose particles using conventional methods.

All construction joints and major cracks should be widened by cutting 25 mm x 25 mm "V"- shape groove all along the cracks and joints, cleaned and filled using acrylic polymer modified cementitious mortar (PMM) modified with acrylic polymer **DANOCRET AR**. The acrylic polymer should have solids > 33%. PMM mix prepared at site by mixing ingredients Cement : Zone-II Quartz Sand : **DANOCRET AR**: Water = 10:30:2:1 to 2 by weight, followed by proper curing.

The existing surface undulation must be filled with epoxy putty prepared using **DANOPRIMER I-EPS** and quartz silica sand mixed in following proportion by weight (**DANOPRIMER I-EPS Resin** : **DANOPRIMER I-EPS Hardener** : Quartz Silica Sand- 100 : 50 : 150 to 300).

For metal surface, surface profile of SA2 is required.

SURFACE PRIMING

Prime the concrete / metal surface with two coats of **TIKI PRIME PU**, a single component clear Polyurethane primer, applied @8 to 10 m²/ltr./coat. Allow the primer to dry. On very absorbent or porous surface, it is necessary to apply additional coats of primer.

Do not use **TIKI PRIME PU** on damp substrates or when moisture content is >4%.

For application on damp surface, use of two component aqueous Epoxy primer **DANOFLOOR PRIMER EPW** is recommended 7 to 10 m²/Kg, depending upon the surface porosity.

MIXING OF MATERIAL

DANOCOAT IM 400 is supplied as pre-weighed two components, ready to use at site.

Prior to mixing, stir Part-B component (Pigmented) for 5 minutes to get homogenous material (Since material contains fillers, it may get settled at bottom of container).

The components of **DANOCOAT IM 400** shall be mixed by gradually pouring Part-A component in to a container containing Part-B component under gradual mixing for 5 minutes using slow speed heavy duty electric stirrer to achieve homogeneous and uniform coloured mix. Never add Component B to component A.

APPLICATION

All corner, seams, splits, control joints, verticle / horizontal interfaces, roof termination pints, openings, transition areas, around the base of all vents pipes and other protrusions, as well as around HVAC units and other roof mounted equipment shall be reinforced with 0.63 mm thick and 120mm wide thermoplastic elastomer coated alkali resistant fabric waterproofing tape **TIKIFLEX 1001**, the reinforcing layer sandwiched between the two coats of **DANOCOAT IM 400** waterproofing, the waterproofing tape embedded in first waterproofing coat when wet,

All preparation materials shall be allowed to dry thoroughly prior to application of the **DANOCOAT IM 400** coating (Including primers).

ON HORIZONTAL SURFACE

Apply the prepared mix of **DANOCOAT IM 400** as soon as the applied primer is dry. Apply **DANOCOAT IM 400** by brush or roller or airless spray @0.80 to 0.90 Kg./m² per coat. Minimum two coats are recommended, the second coat applied perpendicular to first coat after first coat is dry. The two coats would built 1mm d.f.t.

ON VERTICAL SURFACE

Apply the prepared mix of **DANOCOAT IM 400** as soon as the applied primer is dry. Apply **DANOCOAT IM 400** by brush or roller or airless spray @0.40 to 0.45 Kg./m² per coat. Minimum two coats are recommended, the second coat applied perpendicular to first coat after first coat is dry. The two coats would built 0.50mm d.f.t.

Day work joints: Where application of waterproofing coating extends over more than a working day, the subsequent coats should overlap the previous coats by at least 150 mm.

CLEANING

Immediately after application, use suitable solvent for cleaning application tools.

SUPPLY

DANOCOAT IM 400 is supplied in 20 Kg Combo Pack consisting of Part-A Component 5 Kg and Part-B Component 15 Kg.

It has a shelf life of 6 months when stored under the covered shed in dry and sealed condition away from the direct influence of heat, sunlight, moisture, humidity and sparks.

STORAGE

DANOCOAT IM 400 must be stored in dry, frost-free conditions at moderate temperatures not greater than 25°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight, moisture, humidity and sparks.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **DANOCOAT IM 400**.

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