

# 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 atmospheric temperature cycles consequently it does not crack at low temperatures or suffer thermal blow at elevated atmospheric 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 TDS for technical and application details).

### ADVANTAGES

**DANOCOAT IM 400** offer the following benefits:

- Low temperature flexibility down to (-)15°C.
- Good root resistance.
- Excellent adhesion to polyurethane foam and many other primed substrates.
- Elastomeric and high crack bridging ability.
- Low V.O.C , toxicity and odour.
- Excellent stability against water & saline atmosphere.

### APPLICATION DATA

Properties	Values
Mix Ratio by Weight	Part A : Part B - 1:3
Colour	Blue / Off-White
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*	1.65 - 1.80 Kg./m <sup>2</sup> @ 1mm d.f.t
Recommended Coats	2 to 3 coats depending upon the substrate

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

### PROPERTIES OF APPLIED PRODUCT

Properties	Values	Test Standard
Tensile Strength	≥5 MPa	ASTM D412
Elongation	≥400%	ASTM D412
Shore A Hardness	≥55	ASTM D2240
Water Penetration Resistance at 5 bar	No Penetration	BS EN 12390-8
Adhesion to Primed Concrete	≥2MPa	ASTM D7234
Static Crack Bridging	≥3mm	EN 1062-7(A)

### USES

Ideal for waterproofing following areas under protection:

- Terraces, Roofs, and Podiums.
- Metal Deck Roofs.
- Pre-Cast Concrete Structures.
- UG and OH Water Tanks.
- Terrace Garden, Planter Boxes.
- Flyover and 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.

Construction joints and cracks should be widened by cutting "V"- shape groove all along the length, cleaned and filled using 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 = 10:30:2:1-2 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

Depending upon the site conditions, prime the prepared concrete / metal surface with suitable Epoxy based or Polyurethane based primer recommended by TIKIDAN.

If the time is lapsed for more than 24 hours after application of primer, abrade the primed surface to provide mechanical key to subsequent coats.

Allow the applied primer to dry.

#### 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 the 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 points, 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./m<sup>2</sup> 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./m<sup>2</sup> 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, and humidity.

## STORAGE

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