

TIKI AQUASEAL PU2K



2K Liquid Applied Poly Urethane Water Proofing Membrane

DESCRIPTION

TIKI AQUASEAL PU2K is two component, elastomeric, cold applied polyurethane membrane system for water proofing and protection of concrete structures.

It conforms to ASTM C836 and C 898.

ADVANTAGES

- Easy to apply.
- Excellent adhesion.
- Good tensile strength.
- Resistant to water, frost, mild acid and alkali.

USES

TIKI AQUASEAL PU2K is use for waterproofing of

- Roofs and terraces.
- Bridge decks and parking decks.
- Podium deck slabs.
- Retaining Walls.
- Swimming Pool.
- Tunnels.

APPLICATION DATA

Composition	Poly Urethane Resin and Catalyst
Tack Free Time, hrs	2 ± 0.5
Recoat time, hrs	6 – 8
Theoretical Coverage*	1.40 to 1.50 Kg./m ² for 1mm DFT
Mixing ratio	Unit pack
Resistance to Water Pressure	No Leak, 1 M water column, 24 hrs
Solid content, %	≥88
Trafficable time, hr	After 24
Pot Life @ 30°C, RH 60%, minutes	≥50
Service Temperature °C	(-) 40 to (+) 120 (Continuous) Up to 160 (Intermittent)

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

PROPERTIES OF CURED MATERIAL

Properties	Standard	Value
Elongation at Break (%)	ASTM D-412	400 ± 50
Hardness (Shore A)	ASTM D-2240	40 ± 5
Tensile Strength (MPa)	ASTM D-412	2 ± 0.5
Water Absorption (%)	ASTM D-471	≤ 0.5
Tear strength, N/mm	ASTM D-624	≥ 25

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application. Ensure that new concrete must be 28 days old.

All cracks on the substrate shall be opened up by cutting “V” groove and filled with polymer modified mortar modified using **DANOCRET SBR**.

Provide coving of 75mm x 75mm all along the horizontal-vertical joints. Coving shall be of polymer modified mortar modified using **DANOCRET SBR**.

Ensure that the moisture content in the prepared surface does not exceed 5% immediately before application of **TIKI AQUASEAL PU2K**.

MATERIAL PREPARATION

Prior to mixing, any skin / film formation on top of material in container should be scrapped off and removed.

Mix Component B (Catalyst) into Component A (Resin) and stir the contents for at least 5 minutes with a slow speed mixer (approx. 400 rpm) fitted with a mixing paddle ensuring a homogenous mix.

After stirring, allow induction period of 5 to 10 minutes allowing the entrapped air to escape.

NOTE: As the product is moisture curing, once the packing is open, use entire quantity within 4 hours. Do not use part quantity, otherwise skin formation may occur in remaining unused material in packing.

SURFACE PRIMING

Apply **TIKI PRIME PU** Polyurethane based clear primer @ 8 to 10 m²/ltr., per coat on well prepared substrate, covering entire area uniformly. (coverage may vary depending upon the nature and texture of substrate).

Allow the primer to touch dry.

APPLICATION

TIKI AQUASEAL PU2K is applied in two coats** by brush/roller/airless spray @ 0.70 to 0.75 Kg./m² per coat, while primed surface is tacky. Second coat is applied perpendicular to dried first coat.

Allow first coat to dry for 6 to 8 hour before proceeding for second coat.

The 2 coats shall form 1mm d.f.t. (without reinforcing layer).

Depending upon project requirement/specification, reinforcing layer of 40gsm polyester scrim **ARMADURA IP40 can be embedded in between the two coats to provide additional strength to the treatment, the reinforcing layer embedded in first coat while first coat is wet. The 2 coats shall form 1.3mm to 1.5mm d.f.t. (with reinforcing layer).

Allow at least 36 hours for curing before allowing foot traffic / carrying further work.

On vertical area, the waterproofing treatment should be extended up to 200 mm and terminated into the groove cut on parapet wall, groove filled with polymer modified mortar modified with **DANOCRET AR**.

Fine sand @ 200 to 300 g/m² should be sprinkled over the application of final coat on vertical application, when the final coat is still tacky to facilitate plastering. Finally protect vertical application with 20 to 25mm cement-sand plaster admixed with integral water proofing admixture **DANOMIX LW** @ 200ml per 50 Kg. of Cement.

Water ponding test can be carried after 7 days of curing at ambient temperature.

PROTECTION LAYER (For Trafficable Areas)

Cover the horizontal waterproofing with a separation layer of 300 gsm non-woven polypropylene geotextile **DANOFELT PP I-300**.

Over the separation layer, concrete screed of M20 grade admixed with integral waterproofing admixture **DANOMIX LW** @ 200ml per 50 Kg. Cement shall be laid to provide a slope of 1 in 100 for storm water run-off.

The minimum thickness of screed at any point shall not be less than 50 mm. The screed shall have nominal reinforcement of 6mm at 300 c/c or shall be done with SFRC (steel fibre reinforced concrete).

STORAGE

TIKI AQUASEAL PU2K must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight, spark & children.

SUPPLY

TIKI AQUASEAL PU2K is supplied in 26 Kg. combo pack consisting of Component-A Resin 25 Kg., and Component-B Catalyst 1Kg. Shelf Life is 6 months when stored in original unopened sealed condition.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **TIKI AQUASEAL PU2K**.

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