

# DANOCOAT PU2K

## Spray Applied Elastomeric Polyurethane Waterproofing Coating

### DESCRIPTION

**DANOCOAT PU2K** is two components solvent and plasticizer free polyurethane based plural spray applied elastomeric waterproofing coating, which cures very rapidly in few seconds to form a highly durable elastomeric waterproofing and protection film exhibiting a high degree of performance, abrasion and chemical resistance.

**DANOCOAT PU2K** is highly suitable for use on concrete, ceramics, steel, metal sheet, aluminum, PVC, asphalt membranes, PU foam (density of 40 to 50 Kg/m<sup>3</sup>), wood, etc.

The two components (Resin & Hardener) of **DANOCOAT PU2K** is applied using plural high-pressure projection equipment for two components with in-built heating arrangement with mixing relation of 1:1 by volume, such as Graco Reactor E-XP2, H-XP2 or Range Evolution G-30H, G-250H.

### ADVANTAGES

- 100% solids - application of high thickness in single coat.
- Free of solvents and plasticizers – Eco-friendly.
- Excellent waterproofing and leak resistance.
- Excellent bonding and adaptable to complex geometry of support.
- Good resistance to mild acids, alkalis, salt water and hydrolysis.
- Fast work execution without any inconveniences.
- High abrasion resistance.
- Flexible in all weather conditions; no softening in heat or becoming brittle in cold.
- Resistant to penetration by roots.
- Elastomeric – good crack bridging ability.
- Instant curing and drying in few seconds.
- No chipping or peeling.

### USES

**DANOCOAT PU2K** is designed to waterproof and protect various substrates against water ingress, abrasion and corrosion encountered in buildings, industries and infrastructure projects, which covers to include:

- Roofs and terraces
- Retaining Walls
- Pavements and parking deck
- Green roofs, planter box and podium landscapes
- Swimming pools and pond linings
- Marine and offshore installations
- Waterproofing over PU foam
- Metal deck roofs
- Bridge decks under asphalt
- Other areas demanding waterproofing & protection

### APPLICATION DATA

Mix Ratio - Part A : Part B (Resin : Hardener)	1:1 by Volume
Thickness at Stipulated Application Rate	0.50 to 1mm (Primed Steel) 1 to 3mm (Primed Concrete)
Theoretical Coverage*	1 m <sup>2</sup> /ltr. @1mm thickness
Gelation Time	15 to 20 seconds
Dry to Touch	1 to 2 minutes

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

### PROPERTIES OF CURED MATERIAL

Properties	Values
Elongation	≥525 %
Tensile Strength	≥10 MPa
Water Permeability, DIN 1048	Nil at 7 bar of hydrostatic pressure
Water Vapour Permeability	≤0.015 gm/m <sup>2</sup> /hour
Shore A Hardness	≥65

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

Metals: Clean the metal surface as per SSPC SP-1. Abrasive blast cleaning of metal is done as per SSPC SP-10.

The metal surface must be dry and dust free before applying primer.

Apply polyurethane based metal primer **TIKI PRIME PU** @ 8 to 10 m<sup>2</sup>/ltr. Allow primer to cure for 8-12 hours.

Concrete: Clean the concrete surface thoroughly as per ASTM D 4258. Abrasive blast cleaning of concrete surface is done as per ASTM D 4259.

The prepared concrete surface should be dry and free from surface condensation and rising moisture, surface porosity, honeycomb etc. Temperature of concrete substrate must be at least 3°C above dew point temperature.

Over the clean concrete surface, apply **DANOPRIMER I-EPS** epoxy based primer @ 4 to 6 m<sup>2</sup>/Kg.

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.

Undulations in substrate should be filled with repair putty produced at site by mixing **DANOPRIMER I-EPS** with silica flour.

### APPLICATION

**DANOCOAT PU2K** is applied after the applied primer is dry, using high pressure projection equipment for two components with heating arrangement and a 1:1 mixing by volume.

Before starting the application, check for the adequate weather and substrate conditions:

- Ambient temperature -5°C to +50°C
- Relative humidity <85%
- Substrate surface moisture <4%
- Temperature of the support, at least 3°C above the dew point temperature

The liquid membrane **DANOCOAT PU2K** must be applied continuously, making homogenous distribution of the product on primed surface at recommended rate to build required thickness.

On irregular supports, the application rate per m<sup>2</sup> must be increased to maintain recommended thickness. During application, the spray pressures between resin and hardener components should be balanced. The difference must not be greater than 10-15%. If this difference is greater, than the application may result in blisters, pinholes and soft or brittle films or ultimate failure.

The plural spray equipment used must be capable of maintaining a stable high pressure and consistent volume output during application

Top Coat (Optional): **DANOCOAT PU2K** is an aromatic polyurethane, and as such, colour change will occur with UV exposure.

A U.V resistant topcoat of **DANOCOAT PAS 600 / DANOCOAT PAS 700** should be applied over the **DANOCOAT PU2K** for exposed conditions to achieve U.V stability (as per the site requirement).

### CLEANING

Immediately after application of **DANOCOAT PU2K**, use suitable aromatic solvent for cleaning application tools.

## SUPPLY

Part A (Resin) of **DANOCOAT PU2K** is supplied in 200 liter M.S barrels and has a shelf life of 6 months in the unopened containers.

Part B (Hardener) of **DANOCOAT PU2K** is supplied in 200 liter M.S barrels and has a shelf life of 6 months in the unopened containers.

## STORAGE

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

## SAFETY PRECAUTIONS

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

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