

Polyurethane Based Anti-Microbial Corrosion Resistant Coating

DESCRIPTION

DANOKOTE PUC is ready to use two component solvented U.V resistant polyurethane based anti-microbial and chemical resistant coating use to create easy to clean, hygienic, durable and low maintenance surface. It is also ideal for use on metal structures owing to its excellent corrosion resistant properties.

ADVANTAGES

- Exhibits good adhesion with concrete, metal, FRP, stone, brick, wood and other surfaces.
- Good abrasion and chemical resistance.
- UV resistance, light fast and non-yellowing.
- Excellent corrosion resistance.
- Does not encourage bacterial and fungal growth.
- Provides smooth glossy finish.
- Washable and easy to maintain system.

USES

DANOKOTE PUC is ideal for coating of:

- Concrete and metal bridges, flyovers, towers etc.
- Concrete and metal structures exposed to saline or marine environment.
- Pipelines and storage vessels.
- Machines and equipment.
- Sterile areas in hospitals, pharmaceuticals, dairies, food processing units, commercial kitchens etc.
- Offshore platform and ship decks.
- Structures in power plants, fertilizer, paper, textile and other plants.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surfaces must be sound, clean, dry, and free from cracks, undulations, oil, grease, laitance, rust and loose particles.

Metal surfaces should be cleaned free from oil, grease and loose rust particles.

New concrete surfaces should be minimum 28 days old and should be sound with tensile strength >1.5 mPa and moisture content <4%.

SURFACE PRIMING

Apply **TIKI PRIME PU**, polyurethane based clear primer @ 8 to 10 m² per ltr., on well prepared substrate covering the entire area uniformly. Allow the primer to dry. On very absorbent or porous surface, it is necessary to apply second coat of primer.

APPLICATION

DANOKOTE PUC is supplied as pre-weighed two components, ready to use at site. The components of **DANOKOTE PUC** shall be mixed by taking **DANOKOTE PUC Pigmented Resin** component in a clean container followed by addition and gradual mixing of **DANOKOTE PUC Hardener** component using slow speed heavy duty electric stirrer to achieve homogeneous and uniform coloured mix.

The prepared mix of **DANOKOTE PUC** is applied by brush or roller or spray @ 10 to 12 m²/Kg. Minimum two coats are recommended, the second coat applied perpendicular to first coat after first coat is dry.

Spraying if done, should always be carried in area with good exhaust provision and using personal protection equipment such as goggles, breathing mask, etc. For spraying application 5 to 10% of Thinner can be added to the mix material.

CLEANING

Immediately after application of **DANOKOTE PUC**, use suitable solvent for cleaning application tools.

APPLICATION DATA

Mix Ratio by PBW (Resin: Hardener)	100:10
Pot Life @30°C	4 to 6 Hours approx.
Drying Time	
Touch Dry	1 Hour
Hard Dry	4 Hours
Recoatibility	4 Hours
Coverage*	10 to 12 m ² /Kg. per Coat, when applied @ 25 to 30 Microns d.f.t.

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

PROPERTIES OF APPLIED PRODUCT*

Properties	Values
Elongation at break	35 %
Tensile Strength	14 N/mm ²
Adhesion Strength (on Concrete)	1.5 N/mm ²

*Properties tested under laboratory condition for specimens cured for 15days @25°C to 40°C.

CHEMICAL RESISTANCE OF CURED MASS

Resistance to various chemicals at ambient temperature(25 - 35°C), immersion period : 40 days			
No.	Chemical	Concentration	Observation
1	Acetic acid	-	Resistant
2	Acetone	Concentrated	Non - resistant
3	Hydrochloric acid	20%	Resistant
4	Nitric acid	5%	Resistant
5	Phosphoric acid	30%	Resistant
6	Petrol	-	Non -resistant
7	Sulphuric acid	50%	Resistant
8	Salt water	15%	Resistant
9	Sodium hydroxide	30%	Resistant
10	White spirit	-	Non - resistant
11	Xylene	-	Non - resistant

SUPPLY

DANOKOTE PUC is supplied in 22 Kg, pack. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Packing: 22 Kg.

Pigmented Resin	Hardener
20 Kg.	2 Kg.

STORAGE

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

SAFETY PRECAUTIONS

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

VERSION: R3, 202002

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