

DANOKOTE EPS



2K Epoxy Based Chemical Resistant Coating

DESCRIPTION

DANOKOTE EPS is two component epoxy-polyamide based solvented chemical resistant coating system designed to provide maximum protection to various surfaces.

ADVANTAGES

- High gloss and smooth finish.
- Excellent adhesion to primed surface.
- Good chemical resistance.
- Does not encourage microbial growth.
- Resists dry heat up to 120°C.

USES

DANOKOTE EPS is preferred coating system for use in areas requiring good chemical resistance as well as decorative appeal coupled with easy to clean and maintain the surfaces in various industries, which includes:

- Pharmaceutical, food and dairy industries.
- Hospital clean rooms and laboratories.
- Electronic assembly shops and computer rooms.
- Power plants, generator rooms and pump houses.
- Industrial kitchens and light duty floors.
- Automobile and engineering industries.
- Retail centres and departmental stores.
- Aircraft hangers and other areas.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surfaces must be sound, clean, dry, and free from cracks, undulations, oil, grease, laitance and loose 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 **DANOPRIMER I-W**, water borne acrylic based primer @ 5 to 7 m²/Kg., on well prepared substrate covering the entire area uniformly. Allow the primer to dry for minimum 4 hours. On very absorbent or porous surface, it is necessary to apply second coat of primer. (Refer TDS of **DANOPRIMER I-W** for details).

APPLICATION

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

If required, to ease the application, **DANOKOTE EPS** can be thinned by adding suitable thinner up to 5% by volume.

The prepared mix of **DANOKOTE EPS** is applied by brush or roller or spray @ 6 to 8 m²/litre. Minimum two coats are recommended, the second coat applied perpendicular to first after first coat is dried.

Allow the applied system to cure for 24 hours before subjecting it to service.

APPLICATION DATA

Mix Ratio Parts by Volume (Resin: Hardener)	100 : 25
Pot life at 30°C	4 to 5 Hours
Application Viscosity, @ 30°C (B4 Ford Cup)	>20 Seconds
Drying Time	
Tack Free	30 to 40 Minutes
Surface Dry	3 to 4 Hours
Hard Dry	24 to 48 Hours
Coverage	6 to 8 m ² /litre per Coat

*Coverage is approximate and it depends upon the site conditions and surface porosity.

CLEANING

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

SUPPLY

DANOKOTE EPS is supplied in following pack size. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Pigmented Resin	Hardener
20 Litre	5 Litre

STORAGE

DANOKOTE EPS 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 **DANOKOTE EPS**.

PROPERTIES OF APPLIED PRODUCT*

S.No.	Test	Equipment / Test Method	Specification
1	Supply Viscosity @ 30°C	B4 Ford Cup	>60 Seconds
2	Specific Gravity	ASTM D1475	>1.0
3	Non-Volatile Matter	Stoving at 120°C for 1 Hour	>58 %
4	Finish	Visual	Smooth and Glossy
5	Gloss	Gloss-O-meter	75 ± 05 units @ 60°
6	Covering Capacity	Spray Application	6-8 sq.m/liter @ 25-30 μ at 100% transfer efficiency
7	Dry Film Thickness	Digital Thickness Gauge	25 to 30 μ per coat
8	Adhesion (1mm cut for DFT up to 50 μm)	ASTM - D 3359	100% Adhesion
9	Flexibility	Conical Mandrel / ASTM D522 (1/4" dia)	No cracking of paint film
10	Pencil Hardness	ASTM D3363	Minimum 3B pencil hardness after 30 hours curing at ambient temperature
11	Scratch Hardness	Scratch Hardness Tester	Passes at 1.5 kg load
12	Resistance to Salt Spray	ASTM B117	No blistering or loss of adhesion and the rust creepage from the cross cut line should not exceed 1.5 mm on both side after 500 hrs
13	Resistance to Acid	Immerse half portion in 0.1 N H ₂ SO ₄ for 24 hours at room temperature.	No blistering. No failure of adhesion. No deterioration of hardness.
14	Resistance to Alkali	Immerse half portion in 0.1 N NaOH for 24 hours at room temperature.	No blistering. No failure of adhesion. No deterioration of hardness.
15	Resistance to Cold water	Immerse half portion at room temperature for 24 hours.	No blistering. No failure of adhesion. No deterioration of hardness.
16	Impact Test	Impact Tester Ericson - 304	No cracking / flaking of paint film. Direct hit with the 0.908 kg load, 20" height ball dia 5/8"

*Properties tested under laboratory condition for specimens cured for 15days @300C. Properties may vary based on actual site conditions.

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