

# DANOKOTE EP-HD



## Solvent Free High Build Non-Toxic Epoxy Based Coating

### DESCRIPTION

**DANOKOTE EP-HD** is solvent free high build two component epoxy based seamless heavy duty coating system for use on floors, walls, metal and concrete structures used to create easy to clean, hygienic, durable, and low maintenance surface.

### ADVANTAGES

- Seamless system
- High build and solvent free system
- Excellent adhesion to concrete and metal surfaces
- Good water, chemical and abrasion resistance
- Does not encourage microbial growth
- Non-dusting easy to maintain system
- Non-Toxic and Food grade – suitable for use in water tanks

### USES

**DANOKOTE EP-HD** is preferred coating system for use in areas requiring good abrasion and chemical resistance coupled with easy to clean and maintain in various industries, which includes:

- Pharmaceutical, food and dairy industries
- Hospital clean rooms and laboratories
- Power plants, generator rooms and pump houses
- Industrial kitchens
- Automobile and engineering industries
- Retail centres and departmental stores
- Paper mills and sugar factories
- Hatcheries and abattoirs
- 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%.

#### APPLICATION

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

The prepared mix of **DANOKOTE EP-HD** is applied by brush or roller or squeegee @0.30 Kg./m<sup>2</sup> to 0.35 Kg./m<sup>2</sup>. Minimum two coats are recommended, the second coat applied perpendicular to first after first coat is dried.

Allow the applied system to cure thoroughly before putting the system in service..

#### APPLICATION DATA

<b>Mix Ratio PBW</b> (Resin: Hardener)	100 : 25
Pot life at 30°C	≈ 45 Minutes
Appearance	Smooth and Glossy
<b>Curing Schedule</b>	
Tack Free	6 to 8 Hrs
Hard Dry	24 to 48 Hrs
Full Cure	7 Days
Coverage*	3m <sup>2</sup> /Kg., when applied @ 200 micron / coat

\*Coverage / Consumption 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
Compressive strength	>35N/mm <sup>2</sup>	ISO 604
Flexural strength	>45 N/mm <sup>2</sup>	ISO 178
Tensile strength	>20 N/mm <sup>2</sup>	ISO 527
Bond strength	35 Kg/cm <sup>2</sup> (Concrete Failure)	ASTM D4541
Abrasion Resistance (CS10, 1000 Cycles)	< 0.10gm.	ASTM D4060
Impact Resistance	>8 Joules	ASTM D2794
Dry Heat Resistance	50 <sup>o</sup> C to 70 <sup>o</sup> C	ASTM D2485
Scratch Resistance	No Failure @2.5Kg.	BS 3900 Part E2

\*Properties tested under laboratory condition for specimens cured for 15days @30<sup>o</sup>C. Properties may vary based on actual site conditions.

### CLEANING

Immediately after application of **DANOKOTE EP-HD**, use suitable aromatic solvent for cleaning application tools.

### SUPPLY

**DANOKOTE EP-HD** is supplied in 25 Kg. pack. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Packing: 25 Kg.

Pigmented Resin	Hardener
20 Kg.	5 Kg.

Disclaimer: The technical information, and, in particular, the recommendations relating to the application and end-use of Tiki Tar Danosa (TIKIDAN) products, are given in good faith based on TIKIDAN's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with TIKIDAN's recommendations. The information herein is of a general nature and no assumption can be made as to a product's suitability for a particular use or application and no warranty in respect of merchantability or of fitness for a particular purpose can be inferred from this information. The user alone is fully responsible for the product's suitability for the intended application and purpose. TIKIDAN reserves the right to change the properties of its products.

Note: Field service where provided does not constitute supervisory responsibility. Suggestions made by TIKIDAN either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not TIKIDAN, are responsible for carrying out procedures appropriate to a specific application. TIKIDAN reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

### TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,  
Maharashtra, India. T: +91 22 4126 6699  
E: [info@tikidan.in](mailto:info@tikidan.in) | W: [www.tikidan.in](http://www.tikidan.in)

### CHEMICAL RESISTANCE PROPERTIES

Resistance to various chemicals at ambient temperature (25 to 35 <sup>o</sup> C) (6 months immersion), may change color without compromising its chemical resistance property			
No.	Chemical	Concentration	Observation
1.	Acetic acid	5%	Resistant
2.	Hydrochloric acid	20%	Resistant
3.	Sulphuric acid	50%	Resistant
4.	Nitric acid	10%	Resistant
5.	Phosphoric acid	30%	Resistant
6.	Salt solution	Concentrated	Resistant
7.	Wine	-	Resistant
8.	Diesel Oil	-	Resistant
9.	Vegetable Oils	-	Resistant
10.	Sodium hydroxide	30%	Resistant
11.	Fruit juice	-	Resistant

### STORAGE

**DANOKOTE EP-HD** must be stored above 5<sup>o</sup>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 EP-HD**.

VERSION: R3, 202003



ISO 9001:2015