

DANOKOTE EP

Solvent Free Epoxy Based Floor Coating

DESCRIPTION

DANOKOTE EP is solvent free two component epoxy based seamless floor coating system used to create easy to clean, hygienic, durable, and low maintenance flooring surface.

ADVANTAGES

- Seamless system
- High gloss and smooth finish
- Excellent adhesion to primed concrete
- Good chemical and abrasion resistance
- Does not encourage microbial growth
- Non-dusting easy to maintain system
- Slip resistant, even when wet

USES

DANOKOTE EP is preferred floor coating system for use on floors requiring good abrasion and chemical resistance coupled with easy to clean and maintain floors 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 **DANOFLOOR PRIMER EP** epoxy based primer @6 to 8 m²/Kg., 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 EP is supplied as pre-weighed two components, ready to use at site. The components of **DANOKOTE EP** shall be mixed by taking **DANOKOTE EP Pigmented Resin** component in a clean container followed by addition and gradual mixing of **DANOKOTE EP Hardener** component using slow speed heavy duty electric stirrer to achieve homogeneous and uniform coloured mix.

The prepared mix of **DANOKOTE EP** is applied by brush or roller or squeegee @0.25 Kg./m² to 0.35 Kg./m². 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 allowing foot traffic and cure for 7 days before subjecting the floor to vehicular traffic.

APPLICATION DATA

| | |
|---|------------------------|
| Mix Ratio PBW (Resin: Hardener) | 100 : 25 |
| Pot life at 30°C | ≈ 45 Minutes |
| Curing Schedule Foot Traffic/ Light Load Full Traffic Load | 24 to 48 Hrs 7 Days |
| Coverage per Pack* @ 150 micron / coat | 100m ² |

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

*Properties tested under laboratory condition for specimens cured for 15days @30°C. Properties may vary based on actual site conditions.

CHEMICAL RESISTANCE PROPERTIES

| Resistance to various chemicals at ambient temperature (25 - 35°C) (6 months immersion) | | | |
|---|-------------------|---------------|-------------|
| 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. | Sodium hydroxide | 30% | Resistant |
| 8. | Fruit juice | - | Resistant |

CLEANING

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

SUPPLY

DANOKOTE EP 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. |

STORAGE

DANOKOTE EP 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 EP**.

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