DANODECK 250

U.V Resistant Anti-Slip Epoxy-PU Parking Deck System

DESCRIPTION

DANODECK 250 system is a multi-layered car parking deck flooring system, which includes:

a) For Indoor Application: Epoxy Sealer Coat, Epoxy Base Coat, Anti-Slip Quartz Silica Grains and Pigmented Epoxy Wear Coat.


The system provides a colourful, hardwearing textured surface for Intermediate and top decks of multi-storey car parking deck floors, basement-parking floors, terrace parking deck floors and other trafficable floors.

SEALER COAT (DANOFLOOR PRIMER EP)

Sealer Coat is a two-component epoxy system, that when applied in thin layer, it penetrates into the concrete substrate and seals the micro-pores.

BASE COAT (DANODECK BC)

Base Coat is high build three component non-pigmented epoxy system, which aids in surface levelling prior to application of subsequent coats and sustain the traffic load on floor. Base Coat in combination with anti-slip quartz silica grains improves slip resistance of flooring system.

INTERMEDIATE COAT (DANODECK BC)

Intermediate Coat is three component abrasion resistant pigmented epoxy coating use for outdoor applications that helps to improve abrasion resistance of parking deck flooring system and bind the quartz silica anti-slip grains. Intermediate coat is further covered and protected with high abrasion resistant and U.V resistant polyurethane coating.

WEAR COAT

Depending upon the application requirement (Indoor / Outdoor), Epoxy or PU wear coat is selected.

EPOXY WEAR COAT FOR INDOOR APPLICATION (DANODECK BC)

For indoor application, wear coat is three-component high abrasion resistant pigmented epoxy coat that improves abrasion resistance of indoor parking deck flooring system.

PU WEAR COAT FOR OUTDOOR APPLICATION (DANOKOTE PU)

For outdoor application, wear coat is solvent free two component water borne U.V and high abrasion resistant pigmented aliphatic polyurethane coat that imparts high abrasion and U.V resistance to outdoor parking deck flooring system.

FEATURES & BENEFITS

DANODECK 250 system have following features:-

- U.V resistant (with aliphatic PU wear coat).
- Enhances visual appearance and light reflectivity.
- Waterproof system for lower basements.
- Hardwearing and abrasion resistant.
- Slip resistant.
- Good resistance to fuel, grease, battery acid, engine oil spillages.
- Reduces noise from tyre squeal increasing drive comfort.

AREAS OF APPLICATION

DANODECK 250 system is ideal for –

- Car park deck
- Car park ramp
- Transport depot
- Automobile service centre
- Garage & workshop
APPLICATION INSTRUCTIONS

SURFACE PREPARATION
Surface should be cleaned free from dust, loose material, paint, oil, or any other material, which may impair the adhesion of flooring system. Existing cracks, potholes, expansion joints should be properly treated prior to application of flooring.

Concrete substrate should be at least 28 days old and should have moisture content <4% during application of DANODECK 250 flooring system.

SYSTEM DETAILS

FOR INDOOR APPLICATION
The system consists of:

**SEALER COAT (DANOFLOOR PRIMER EP):** Epoxy based Sealer Coat is supplied in pre-weighted two components (Resin and Hardener) ready to use on site. Preferably use slow speed electric stirrer for mixing the components.

Add gradually Sealer Coat Hardener to Sealer Coat Resin in a vessel and stir until homogenous mix is obtained. Apply the mix by brush or roller on to the well prepared dry surface @ 5 to 7 m²/Kg.

Actual coverage will depend on the surface texture and porosity of the substrate. If require, apply second coat of Sealer Coat. Maintain an interval of 12 to 16 hour between the coats. Allow sealer coat to dry.

**BASE COAT (DANODECK BC):** Epoxy based Base Coat is supplied in pre-weighted three components (Resin, Hardener and Filler) ready to use on site. Preferably use slow speed electric stirrer for mixing the components.

Add gradually Base Coat Hardener to the Base Coat Resin and stir until homogeneous mix is obtained.

Finally add Base Coat Filler to the mix and stir until homogeneous mix is obtained. Spread the prepared mix to required thickness using flat trowel.

Immediately after application of Base Coat, broadcast Anti-Slip Quartz Silica Grains in excess @ 2 to 4 Kg./m² on wet Base Coat covering the entire surface.

When the Base Coat is hardened, preferably after 18 to 24 hours of application of Base Coat, excess unbonded anti-slip quartz silica grains shall be removed using vacuum.

**WEAR COAT (DANODECK BC):** Epoxy based Wear Coat is supplied in pre-weighted three components (Resin, Hardener and Coloring Paste) ready to use on site. Preferably, use slow speed electric stirrer for mixing the components.

Add gradually Wear Coat Colouring Paste to Wear Coat Resin in a vessel and stir until homogenous colour mix is obtained. Add Wear Coat Hardener to coloured mix and stir until homogeneous mix is obtained. Apply the mix in two coats @4 to 5m²/Kg., per coat using roller and allow it to dry. Maintain an interval of 8 to 16 hours between the coats.

FOR OUTDOOR APPLICATION
The system consists of:

**SEALER COAT (DANOFLOOR PRIMER EP):** Epoxy based Sealer Coat is supplied in pre-weighted two components (Resin and Hardener) ready to use on site. Preferably use slow speed electric stirrer for mixing the components.

Add gradually Sealer Coat Hardener to Sealer Coat Resin in a vessel and stir until homogenous mix is obtained. Apply the mix by brush or roller on to the well prepared dry surface @ 5 to 7 m²/Kg.
Always coverage will depend on the surface texture and porosity of the substrate. If required, apply a second coat of Sealer Coat. Maintain an interval of 12 to 16 hours between the coats. Allow sealer coat to dry.

**BASE COAT (DANODECK BC):** Epoxy-based Base Coat is supplied in pre-weighed three components (Resin, Hardener, and Filler) ready to use on site. Preferably, use slow-speed electric stirrer for mixing the components.

Add gradually Base Coat Hardener to the Base Coat Resin and stir until homogeneous mix is obtained. Finally, add Base Coat Filler to the mix and stir until homogeneous mix is obtained. Spread the prepared mix to required thickness using flat trowel. Immediately after application of Base Coat, broadcast Anti-Slip Quartz Silica Grains in excess @ 2 to 4 Kg./m² on wet Base Coat covering the entire surface.

When the Base Coat is hardened, preferably after 18 to 24 hours of application of Base Coat, excess un-bonded anti-slip quartz silica grains shall be removed using vacuum.

**INTERMEDIATE COAT (DANODECK BC):** Epoxy-based Intermediate Coat is supplied in pre-weighed three components (Resin, Hardener, and Coloring Paste) ready to use on site. Preferably, use slow-speed electric stirrer for mixing the components.

Add gradually Intermediate Coat Colouring Paste to Intermediate Coat Resin in a vessel and stir until homogenous colour mix is obtained. Add Intermediate Coat Hardener to coloured mix and stir until homogeneous mix is obtained. Apply one coat of the mix @4 to 5 m²/Kg., using roller and allow it to dry.

**WEAR COAT (DANOKOTE PU):** Polyurethane-based Wear Coat is supplied in pre-weighed two components (Pigmented Resin and Hardener) ready to use on site. Preferably, use slow-speed electric stirrer for mixing components.

Add gradually Wear Coat Hardener to Wear Coat Resin in a vessel and stir until homogenous colored mix is obtained. Dilute the prepared mix with 20% water by weight to ease the application.

Apply the mix in two coats @5 to 7 m²/Kg., per coat using standard paint brush/plain trowel, the second coat applied perpendicular to the dried first coat. Maintain an interval of 4 to 8 hours between the coats.

**CLEANING OF TOOLS**

Tools and equipment contaminated with liquid DANODECK 250 system shall be cleaned with Thinner or suitable solvent. Cleaning should be done before the mixed material starts to gel or harden.

**STORAGE**

DANODECK 250 must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight, sparks and children. The shelf life of these products shall be 12 Months from the date of manufacture in sealed unopened container.

**SAFETY PRECAUTIONS**

As with all chemical products, care should be taken during use and storage. Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application. For further detail, refer to Material Safety Data Sheet.
## PROPERTIES OF THE PRODUCT

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<tr>
<td>Pot Life (Minutes)</td>
<td>45 to 60</td>
<td>40 to 45</td>
<td>40 to 45</td>
<td>40 to 45</td>
<td>240 to 360</td>
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<td>Touch Dry Time (Hrs.)</td>
<td>6 to 8</td>
<td>8 to 12</td>
<td>8 to 12</td>
<td>8 to 12</td>
<td>1 to 2</td>
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<tr>
<td>Recoil Time (Hrs.)</td>
<td>12 to 16</td>
<td>18 to 24</td>
<td>18 to 24</td>
<td>18 to 24</td>
<td>4 to 8</td>
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<tr>
<td>Consumption* (Kg./m² / coat)</td>
<td>0.15 to 0.20</td>
<td>Depends upon the thickness of the system</td>
<td>0.20 to 0.25 Kg./m²/coat</td>
<td>0.20 to 0.25 Kg./m²/coat</td>
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*Consumption is approximate and it depends upon the site conditions and surface porosity at the time of application.

**Note:** Anti-Slip Quartz Silica grains shall be broadcasted in excess @ 2 to 4 Kg./m² on wet Base Coat.

## SUPPLY

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<tr>
<td>Resin: 5 Kg. Hardener: 2.5 Kg.</td>
<td>Resin: 10 Kg. Hardener: 3.5 Kg. Filler: 10 Kg.</td>
<td>Resin: 10 Kg. Hardener: 3.5 Kg. Colouring Paste:0.40 Kg.</td>
<td>Resin: 10 Kg. Hardener: 3.5 Kg. Colouring Paste:0.40 Kg.</td>
<td>Pigmented Resin: 20 Kg. Hardener: 3Kg.</td>
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**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.

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