

## 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 Silica Grains and Epoxy Top Coat.
- b) **For Outdoor Application:** Epoxy Sealer Coat, Epoxy Base Coat, Anti-Slip Silica Grains, Epoxy Intermediate Coat, and U.V, abrasion resistant Aliphatic Polyurethane wear coat on top.

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

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

### BASE COAT

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 load on floor. Base Coat in combination with anti-slip grains improves slip resistance.

### INTERMEDIATE COAT

Intermediate Coat is three-component high abrasion resistant pigmented epoxy coating that helps to improve abrasion resistance of parking deck flooring system.

### TOP COAT

Top Coat is three-component high abrasion resistant pigmented epoxy coating that helps to improve abrasion resistance of indoor parking deck flooring system.

### WEAR COAT

Wear Coat is two component U.V and high abrasion resistant pigmented aliphatic polyurethane coat that helps to improve abrasion and U.V resistance of 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
- Hard-wearing and abrasion resistant
- Slip resistant
- Excellent bond strength

### 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 to be applied upon must be free from dust, loose material, paint, oil, or any other material which may impair adhesion. Any cracks, pot holes, expansion joints should be properly repaired before the application of sealer coat.

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

#### SYSTEM DETAILS

**DANODECK 250 System** is supplied in pre-weighted units of sealer coat, base coat, anti-slip grains, topcoat (or) intermediate coat and wear coat.

#### **FOR INDOOR APPLICATION:**

The system consists of:

**Sealer Coat:** Sealer Coat is supplied in pre-weighed two components (Resin and Hardener) ready to use on site. Preferably use slow speed electric stirrer for mixing the two 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 m<sup>2</sup>/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.

**Base Coat:** After sealer coat is dry, apply Base Coat. Base Coat is supplied in pre-weighed three component (Resin, Hardener and Filler) ready to use on site. Preferably use slow speed electric stirrer for mixing components.

Add gradually **Base Coat Hardener** to **Base Coat Resin** in a vessel and stir until homogenous 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 Silica Grains** in excess @ 2 to 4 Kg./m<sup>2</sup> 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 silica grains shall be removed using vacuum.

**Top Coat:** After removing the excess un-bonded anti-slip silica grains, apply Top Coat. Top Coat is supplied in pre-weighed three components (Resin, Hardener and Colouring Paste) ready to use on site.

Preferably use slow speed electric stirrer for mixing the three components.

Add gradually **Top Coat Colouring Paste** to **Top Coat Resin** in a vessel and stir until homogenous coloured mix is obtained. Finally to the prepared coloured mix, add **Top Coat Hardener** and stir until homogenous coloured mix is obtained. Apply the mix in two coats @ 3 to 5m<sup>2</sup>/Kg., per coat using roller and allow it to dry. Maintain an interval of 8 to 16 hours between the coats.

#### **FOR INDOOR APPLICATION**

The system consists of:

**Sealer Coat:** Sealer Coat is supplied in pre-weighed two components (Resin and Hardener) ready to use on site. Preferably use slow speed electric stirrer for mixing the two 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 m<sup>2</sup>/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.

**Base Coat:** After sealer coat is dry, apply Base Coat. Base Coat is supplied in pre-weighed three component (Resin, Hardener and Filler) ready to use on site. Preferably, use slow speed electric stirrer for mixing components.

Add gradually **Base Coat Hardener** to **Base Coat Resin** in a vessel and stir until homogenous 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 Silica Grains** in excess @ 2 to 4 Kg./m<sup>2</sup> on wet Base Coat covering the entire surface.

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

**Intermediate Coat:** After removing the excess un-bonded anti-slip silica grains, apply Intermediate Coat. Intermediate Coat is supplied in pre-weighed three component (Resin, Hardener and Colouring Paste) ready to use on site. Preferably, use slow speed electric stirrer for mixing components.

Add gradually **Intermediate Coat Colouring Paste** to **Intermediate Coat Resin** in a vessel and stir until homogenous coloured mix is obtained. Finally to the prepared coloured mix, add **Intermediate Coat Hardener** and stir until homogenous coloured mix is obtained. Apply one coat of the mix @ 3 to 5m<sup>2</sup>/Kg., using roller and allow it to dry.

**Wear Coat:** After Intermediate Coat is dry, apply U.V and abrasion resistant Wear Coat. Wear Coat is supplied in pre-weighed two component (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 coloured mix is obtained. Dilute the prepared mix with 20% water by weight of Resin to ease the application.

Apply two coats of the prepared mix by roller on to the dry intermediate coat @ 8 to 10 m<sup>2</sup>/Kg./coat. Keep an interval of 12 to 16 hour between two 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 it 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

Properties at 30°C	Sealer Coat	Base Coat	Intermediate Coat / Top Coat	Wear Coat
Mixing Ratio (PBW)	Resin : Hardener 100:50	Resin : Hardener : Filler 100:35:400	Resin : Hardener : Colour Paste 100:35:7	Pigmented Resin : Hardener 100:15
Pot Life (Minutes)	45 to 60	40 to 45	30 to 40	30 to 45
Touch Dry Time (Hrs.)	6 to 8	8 to 12	8 to 12	2 to 4
Recoat Time (Hrs.)	12 to 16	18 to 24	18 to 24	8 to 16
Consumption* (Kg./m <sup>2</sup> / coat)	0.15 to 0.20	Depends upon the thickness of the system	0.20 to 0.25	0.10 to 0.125

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

**Note:** Anti-Slip silica grains shall be broadcasted in excess @ 2 to 4 Kg./m<sup>2</sup> on wet Base Coat.

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