

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

### DESCRIPTION

**DANODECK 250** system is a multi-layered flooring system, which includes sealer, coat, base coat, intermediate coat / top coat and U.V, abrasion resistant aliphatic polyurethane wear coat.

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

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

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

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 parking deck flooring system.

### FEATURES & BENEFITS

**DANODECK 250** system have following features:-

- U.V resistant (with aliphatic PU wear coat)
- Enhances the visual appearance and sharpen light reflectivity.
- Easy to clean – dust free system

- 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 **DANOCOAT 250** flooring system.

#### SYSTEM DETAILS

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

**Sealer Coat:** 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 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 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. Keep 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 mixture is obtained. Spread the prepared mixture 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.

**Intermediate Coat / Top Coat:** It 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 the **Colouring Paste** component to **Resin** component in a vessel and stir until uniform coloured mix is obtained. Finally add **Hardener** component to the coloured mix and stir until homogeneous coloured mixture is obtained.

Application as Intermediate Coat: After removing excess un-bonded anti-slip silica grains, as an **Intermediate Coat**, apply one coat of the prepared mix @ 4 to 5 m<sup>2</sup>/Kg., using roller and allow it to dry.

The dry Intermediate Coat shall be followed by 2 Coats of PU Wear Coat.

Application as Top Coat: After removing excess un-bonded anti-slip silica grains, as an **Top Coat**, apply two coat of the prepared mix @ 4 to 5 m<sup>2</sup>/Kg./coat, using roller and allow it to dry. Keep an interval of 8 to 16 hour between two coats.

**Wear Coat:** Apply two coats of aqueous based pre-pigmented U.V and high abrasion resistant polyurethane coating supplied in pre-weighed two component (Pigmented Resin and Hardener) ready to use on site. Preferably use slow speed electric stirrer for mixing the 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

**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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