

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.
- b) **For Outdoor Application:** Epoxy Sealer Coat, Epoxy Base Coat, Anti-Slip Quartz Silica Grains, Pigmented Epoxy Intermediate Coat, and U.V, Abrasion Resistant Pigmented Aliphatic Polyurethane 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-weighed 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-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 unbonded anti-slip quartz silica grains shall be removed using vacuum.

WEAR COAT (DANODECK BC): Epoxy based Wear 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 **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-weighed 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-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 unbonded 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 5m²/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 7m²/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

Properties at 30°C	Sealer Coat (DANOFLOOR PRIMER EP)	Base Coat (DANODECK BC)	Intermediate Coat (DANODECK BC) For Outdoor Parking Deck Application	Wear Coat (DANODECK BC) For Indoor Parking Deck Application	Wear Coat for (DANOKOTE PU) for Outdoor Parking Deck Application
Mixing Ratio (PBW)	Resin : Hardener 100:50	Resin : Hardener : Filler 100:35:400	Resin : Hardener : Colouring Paste 100:35:4	Resin : Hardener : Colouring Paste 100:35:4	Pigmented Resin : Hardener 100:15
Pot Life (Minutes)	45 to 60	40 to 45	40 to 45	40 to 45	240 to 360
Touch Dry Time (Hrs.)	6 to 8	8 to 12	8 to 12	8 to 12	1 to 2
Recoat Time (Hrs.)	12 to 16	18 to 24	18 to 24	18 to 24	4 to 8
Consumption* (Kg./m ² / coat)	0.15 to 0.20	Depends upon the thickness of the system	0.20 to 0.25 Kg./m ² /coat	0.20 to 0.25 Kg./m ² /coat	0.15 to 0.20

*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

Sealer Coat (DANOFLOOR PRIMER EP)	Base Coat (DANODECK BC)	Intermediate Coat (DANODECK BC) For Outdoor Parking Deck Application	Wear Coat (DANODECK BC) For Indoor Parking Deck Application	Wear Coat for (DANOKOTE PU) For Outdoor Parking Deck Application
Resin: 5 Kg. Hardener: 2.5 Kg.	Resin: 10 Kg. Hardener: 3.5 Kg. Filler: 10 Kg.	Resin: 10 Kg. Hardener: 3.5 Kg. Colouring Paste:0.40 Kg.	Resin: 10 Kg. Hardener: 3.5 Kg. Colouring Paste:0.40 Kg.	Pigmented Resin: 20 Kg. Hardener: 3Kg.

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