SPECTRA DECKGUARD TOP COAT

PU BASED TOP COAT FOR FLOOR DECK CAR PARKING

Description

Spectra Deckguard Top Coat is 4K Polyurethane Based Top/Seal Coat for car parking area specially designed to impart high abrasion and chemical resistance. This Top Coat will be used as a part of Car-Deck Flooring system to seal the aggregate layer where UV light stability is not critical.

Uses

As Top Coat can be used in

- Multistoriedand underground Car Parking Area & Ramps
- Garage Floor
- Mechanical Warehouses Loading Bays

Features & Benefit

Spectra Deckguard Top Coat is characterized by-

- High Solid, Low VOC
- Self Levelling
- High Abrasion Resistance
- Excellent Crack Bridging Ability (CBA)
- Good Chemical and Abrasion Resistance
- Skid Resistance

Components & Ratios

Components mixing ratios
Comp A: Comp B: Comp C: Comp D = 100 : 50 : 7 : 75

Packaging

Available in 9.30 kg packaging.

Application Methods

Joint Treatment

Joints in substrate should be treated properly prior to the floor topping with **Spectra Deckguard Base Coat** is done. **Spectra Deckguard Base Coat** should be used only on high strength substrates. New concrete should be cured for minimum 28 days.

Surface Preparation

All surfaces must be sound, clean, dry, free from oil, grease, cement laitance and all loosely adhering particles.

Application of Primer

Apply the **Spectra Floguard ERP 2K** to the prepared concrete surface. Mix components of **Spectra Floguard ERP 2K** in proportion as recommended. Once mixed, primer should be immediately applied in a thin, continuous film using stiff brush/ roller or trowel at an application rate of 0.2-0.25 Kg/sq mt.
Porous surface may require two coats of primer. Primer should be allowed to cure sufficiently, normally 6 – 18 hrs, prior to application of **Spectra Deckguard Base Coat**.

Application of Base coat

Spectra Deckguard Base Coat is supplied in pre- weighed three components ready to use on site. (*Refer the TDS for detailed application process)*

Priming

Apply the primer **Spectra Floguard ERP 2K** to the prepared concrete surface. Mix components of Beck Bond EP 17 in proportion as recommended. Once mixed, primer should be immediately applied in a thin, continuous film using stiff brush/ roller or trowel at an application rate of 0.2-0.25 Kg/sq mt.

Porous surface may require two coats of primer. Primer should be allowed to cure sufficiently, normally 6 – 18 hrs, prior to application of **Spectra Deckguard Base Coat**.

Broad Casting of Antiskid Sand

While Base Coat is still wet broadcast quartz sand (0.5-1.0 mm) over it uniformly. The excess aggregate should be removed after 6-8 hours by brushing or vacuuming before the application of Top Coat.

Application of Top Coat

Spectra Deckguard Top Coat is supplied in pre- weighed four components ready to use on site. Preferably use slow speed electric stirrer for mixing. Prior mixing all four components, shake Part A container and pour into another container then add Color Paste (CP) and mix them for 1 minute and add Part Band mix them until uniformity achieved. Then add Part C (Filler) and mix them till the mixture get homogeneous. Overmixing must be avoided to minimize air entrapment. Apply the mixed Top Coat at an application rate of 0.5-0.6 Kg/sq mt by roller or brush.

Cleaning

Tools and equipment contaminated with Primer or Base/Top Coat can be cleaned with MEK or suitable solvent. Cleaning should be done before it starts to gel or harden.

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Properties

Name of Compound	Spectra Deckguard Top Coat Comp A	Spectra Deckguard Top Coat Comp B	Spectra Deckguard Top Coat Comp C	Spectra Deckguard Top Coat Comp D
Colour & Appearance	Light yellowish	Colourless to Light yellowish	Viscous Paste	White powder
Type of Compound	Waterborne Polyol	Isocyanate Hardener	RAL colour as per availability	Quartz powder
Ratio	100	50	7	75
Quantity of component in packaging(kg)	4	2	0.28	3

Mixed Properties

Appearance	Flowable viscous liquid
Appearance after curing	Matt
Mixed Density	Approx 1.2gm/ml
Pot Life	45-60 mint at 30°C
Initial Curing time	8 hrs
Foot Traffic	24 hrs
Full Traffic load	After 7 days
Coverage	0.5 – 0.7 kg/sqmt
Application	Rollar/Brush

Cured Material Properties

Properties after 15 days curing at room temperature

Property	Test Method	Typical Values
Tensile Strength(N/mm2)	ISO 527	10
Pull up adhesion on Concrete	ASTM D-4541	>1.5 Mpa, Concrete failure
Abrasion Resistance(gm. max weight loss)	ASTM D-4060, CS-17 Wheel,1000 cycles	0.2 gm
Shore D	ISO 868	>70
Adhesion to Concrete(mPa)	ASTM D-4541	3
Slip Resistance(Pendulum Test)	BS EN 13036-4:2011	Classified “Low Slip Potential” Dry > 40 ; Wet >40

Chemicals Resistance

Resistance to various chemicals at ambient temperature (25 - 35°C) (6 months immersion)

Chemicals	Concentration	Observation
Petrol	-	Resistance
Diesel	-	Resistance
Hydraulic Fluid	-	Resistance
Water	-	Resistance
Oil	-	Resistance

Storage & Shelf Life

This products should be stored in well ventilated dry place away from moisture contamination. The area of storage shall be covered protecting the material from direct sunlight. The shelf life of these products shall be one year from the date of manufacture in sealed unopened container.

Safety

Spectra Deckguard Top Coat Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application. For further detail, refer to Material Safety Data Sheet.

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Note:
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