

DESCRIPTION

CEMKRETE DURADECK PU carpark flooring system is a solvent free, semi-flexible trafficable polyurethane deck coating system. It's a versatile system designed specifically to protect concrete floor/traffic decks, open roofs that are subjected to heavy abrasion and vehicular traffic.

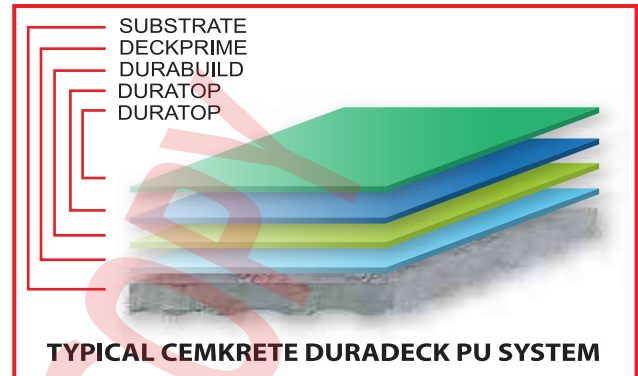
A combination for other **CEMKRETE** product can be used to design finishing that meets various demand of ramp, turning circle and drive way in car parks.

USES

CEMKRETE DURADECK system is designed for carpark, garage, auto service center and other high traffic facilities.

BENEFITS

- Non skid, non dusting, fire resistant, hard wearing.
- Minimum noise generation.
- Water proofing.
- Fast track installation.
- Aesthetically attractive with multi colors.
- Excellent bond strength.
- Crack bridging.
- 100% UV light stable - non yellowing.
- Excellent resistance to cleaning detergent, engine oil, battery acid, hydraulic fluid, fuel, etc.

**Technical Data :**

No. of Components	System:	Deckprime	2
		Durabuild	3
		Duratop	2
No. of Coats Recommended	System:	Deckprime	1
		Durabuild	1
		Duratop	2
Recommended Total Dry Film Thickness			1.5 - 3mm
Mixing Ratio (By Weight)	System:	Deckprime	1.5 : 1
		Durabuild	5:1 : 4
		Duratop	5 : 1
Estimated Coverage	System:	Deckprime	6-8m ² /kg
		Durabuild	1.5kg/m ²
		Duratop	5-7m ² /kg
NOTE: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.			
Curing Time(Duradeck System)		Tack-free time -	4-5 hours @ 30°C
		Foot Traffic -	24 hours @ 30°C
		Vehicle Traffic -	48 hours @ 30°C
Compressive Strength			N/A
Abrasion Resistance			0.05 gms/ 1000 gms loading at 1000 rpm (CS-10 Wheel)
Temperature Resistance			60°C
Bond Strength			break at concrete
Pot Life	System:	Deckprime	60 mins @ 30°C
		Durabuild	30 mins @ 30°C
		Duratop	20 mins @ 30°C
Packaging	System:	Deckprime	10kg
		Durabuild	10kg
		Duratop	6kg

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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TYPICAL CEMKRETE DURADECK SYSTEM**• DECKPRIME**

A waterbased penetrating PU Primer designed specially for use in the **CEMKRETE DURADECK** system.

• DURABUILD

A heavy duty textured polyurethane-middle coat blended specially selected silica quartz as filler as to improve the overroll mechanical properties. Recommended to apply 1.5 to 3mm thickness.

For ramp and turning circle area of carpark, alternative fillers such as aluminium oxide or emery will be used to broadcast on top to improve on the traction.

• DURATOP

A hard wearing, UV resistant pigmented polyurethane finishing coat for use on **DURADECK** system.

• DURADECK EX FOR OUTDOOR

For outdoor application UV resistant and long lasting, use **DURAPOL 500**, a heavy duty color fast polyurethane base coating.

INSTALLATION OF DURADECK PU CARPARK SYSTEM**SUBSTRATE REQUIREMENT**

Floor to receive **CEMKRETE DURADECK** system must be Grade 25 concrete or above and preferably waterproofed. When measured upon with a moisture meter, its reading should not exceed 5%. If cracks & joints are present they must be treated accordingly by normal concrete repair procedures.

SURFACE PREPARATION

Prepare floor to be treated by grinding, blasting or scarifying depending on the site conditions to remove laitance, dust, dirt and other foreign materials which may impair bonding. Repair damaged concrete, cracks and other imperfections by normal concrete repair procedures. It is understood that **CEMKRETE DURADECK** system is not a floor leveler. Floor undulation must be corrected by other means of floor leveling procedures.

APPLICATION**• DECKPRIME –**

On the properly prepared substrate, mix **DECKPRIME** accordingly and apply product by spray, roller or squeegee and spread uniformly at a spreading rate of 5-7sq.m/kg depending on the floor absorption rate.

Allow product to cure for 24 hours minimum before next coat. Do not mix product more than what can be used within 1hour or before pot life is expired.

• DURABUILD –

On the cured, primed substrate, mix **DURABUILD** system accordingly and apply by trowel or squeegee and spread uniformly at a spreading rate of 1.0-2.0kgs/sq.m depending on the floor profiles or thickness required.

Almost immediately within the 20 minutes pot life period, broadcast Anti Slip aggregates (size 30/60) to create rough floor if so desired.

To compact the aggregates with the resin, it is recommended to use heavy metal roller to press on the aggregates surface until reasonably levelled and allows to cure overnight.

On the next day, gently scrap the aggregates surface with a metal spade to loosen any unsecured particles and remove thoroughly by powerful industrial vacuum. Carry out spot repairs if necessary.

If smooth profile is required, apply Durabuild system without anti slip aggregates.

• DURATOP –

Prepare and mix **DURATOP** accordingly and apply by spray or roller to spread uniformly on the surface of bonded aggregates at a spreading rate of 3.0-5.0sq.m/kg depending on the profile of the aggregate surface.

Two coats of **Duratop** is recommended.

MIXING

CEMKRETE DURADECK is a multi component / system product which requires proper mixing / handling, it is recommended to read Product Data Sheet thoroughly and understand its properties or consult **CEMKRETE** Technical representative before proceed to use product.

THINNING

CEMKRETE DURADECK product is formulated to be used straight from the containers without further thinning.

TOOLS / MACHINERIES

It is imperative that adequate suitable mechanical tool / machineries are employed thru' out the application of **CEMKRETE DURADECK** to achieve the desired result. Without such resources, it is almost impossible to work with **CEMKRETE DURADECK** system successfully. Consult **CEMKRETE** Technical Representative for required tools / machineries recommendation.

ADVANTAGES OF CEMKRETE DURADECK SYSTEM

The physical properties of urethane coatings are superior to other polymer systems especially its crack-bridging capabilities due to its high elongation strength; hair-line crack from concrete shrinkages is almost non visible. The tough coating is impervious to water or oil penetration thus prolonging the services life-span of the substrate.

HEALTH & SAFETY

Some of the components in **CEMKRETE DURADECK** may be hazardous during mixing and application. Always use with suitable protective gears and adequate ventilation. Please read the relevant Health & Safety Data Sheet, available on request.

FURTHER INFORMATION

CEMKRETE SDN BHD is the leading manufacturer of Polymer Flooring System and we have many years of hands on experiences not limited to car park only. Our core business besides flooring, we are also known supplier of protective coatings, water proofing, concrete repair products, cementitious / Epoxy / PU grouts, fire proofing, tank lining and surface preparation equipment. For a complete technical solution, make **CEMKRETE** your partner today. Contact our hotline now.

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