

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.

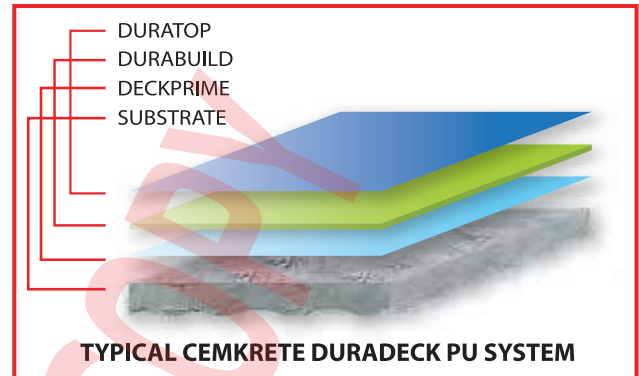
A combination of other CEMKRETE products can be used to design finishing that meets the demand of ramps, turning circles and drive ways in carparks.

USES

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

BENEFITS

- Non skid, non dusting, fire resistant, hard wearing.
- Minimum noise generation.
- Fast track installation.
- Aesthetically attractive with multi colors.
- Excellent bond strength.
- Crack tolerant.
- Excellent resistance to cleaning detergent, engine oil, battery acid, hydraulic fluid, fuel, etc.

**Technical Data :**

No. of Components	System:	Deckprime	2
		Durabuild	2
		Duratop	2
No. of Coats Recommended	System:	Deckprime	1
		Durabuild	1
		Duratop	1
Mixing Ratio (By Weight)	System:	Deckprime	6 : 4
		Durabuild	5 : 1
		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.			
**Binder coverage.			
Curing Time(Duradeck System)		Tack-free time -	4-5 hours @ 30°C
		Foot Traffic -	24 hours @ 30°C
		Vehicle Traffic -	48 hours @ 30°C
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	20 mins @ 30°C
		Durabuild	30 mins @ 30°C
		Duratop	20 mins @ 30°C
Packaging	System:	Deckprime	10kg
		Durabuild	6kg
		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 Primer designed specially for use in **CEMKRETE DURADECK** system.

• DURABUILD

A heavy duty textured polyurethane-middle coat specially designed to improve the overall mechanical properties.

For ramps and turning circle areas of carparks, selected non-slip aggregate such as silica sand can be used and broadcasted on top as to enhance traction.

• DURATOP

A hard wearing pigmented polyurethane finishing coat to be used in **CEMKRETE DURADECK** system.

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%.

SURFACE PREPARATION

- (a) Surface preparation is to be completed 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.
- (b) Prepare grooves, approximately 5mm wide x 5mm deep at all edges, bay joint columns, doorways and drains for anchoring purpose.
- (c) 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 squeegee and/or roller. Please note that porous concrete may require more materials for sealing due to the floor absorption rate.

Allow to cure for 24 hours minimum before applying the remainders of the system.

• DURABUILD –

On the cured, primed substrate, mix **DURABUILD** accordingly and apply by notched squeegee or notched trowel ensuring an even consistent coat is achieved.

While **DURABUILD** is wet and still within its pot life period, immediately broadcast the non slip aggregate to the point of refusal.

To compact the aggregate with the resin, it is recommended to use a heavy metal roller to press on the aggregate surface until reasonably levelled. Allow to cure overnight.

On the next day, gently scrape the surface with a metal spade to remove any loosely bonded aggregate and remove thoroughly by powerful industrial vacuum. Carry out spot repairs if necessary.

If a smooth textured profile is required, apply **DURABUILD** without broadcasting aggregate on top.

• DURATOP –

Prepare and mix **DURATOP** accordingly and apply by roller, ensuring an even consistent film is achieved.

MIXING

CEMKRETE DURADECK is a multi component/system product which requires proper mixing/handling, it is therefore recommended to read through the Product Data Sheet and Method of Statement thoroughly and understand its properties or consult **CEMKRETE** Technical representative before proceeding with the application.

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 tools/machineries are employed throughout the application of **CEMKRETE DURADECK** to achieve the desired result. Consult **CEMKRETE** Technical Representative for a recommendation of required tools/machineries.

ADVANTAGES OF CEMKRETE DURADECK SYSTEM

The physical properties of PU coatings are superior to other polymer systems especially its crack tolerant 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 service 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 Material 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. **CEMKRETE** is also a known supplier for protective coatings, waterproofing, concrete repair products, cementitious/Epoxy/PU grouts, fireproofing, tank lining and surface preparation equipment. For a complete technical solution, make **CEMKRETE** your partner today. Contact our hotline now.

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