

Duracrete 5000

Floor toppings

Duracrete 5000 is a **three-component PU flooring** recommended for the most demanding applications in the industry. Duracrete 5000 is a water-based, polyurethane flooring system designed to provide an extremely abrasion and chemical resistant floor topping. Duracrete 5000 is generally applied at a thickness of 5mm. Duracrete 5000 is available in limited shades.

Properties:

- Water-based & hence VOC compliant.
- UV resistant and can be used for exterior applications
- Fast setting
- Highly abrasion resistant
- High impact and chemical resistant
- More durable than most of the flooring systems

Uses:

- Automobile floors with heavy traffic movements
- Warehouses and loading docks
- Light & heavy engineering industries
- Steam cleaning areas in a pharma
- Hangars
- Chemical & Fertilizer plants
- Foundries, Iron & steel plants

Direction to use:

- Ensure that CDS (Clean, Dry & Sound) test is conducted on the concrete.
- Surface preparation like scarification, grinding or shot blasting is done to achieve a surface profile of 150-200 microns.
- Priming: Apply Cipoxy 16 and allow to cure for 8 hours.
- Duracrete 5000 application: Duracrete 5000 contains 3 components, viz. resin, hardener and filler. Mixing ratio as per pre-measured pack. Working with Duracrete 5000 necessitates thorough mixing of the three components using a whirl attachment clamped in an electric drill. Care is taken to ensure that the air is not being driven into the system. Mix half portion of aggregates with Resin to get a uniform slurry. Addition of aggregates into Resin should be in a slow manner. Mix thoroughly. Add Hardener part and stir. Add the remaining portion of aggregates and stir completely. Duracrete 5000 is applied by trowel to the specified thickness. Allow to cure for 12 hours.

Properties	Value	Test Method
Application time:		
Working time at 30° C	8 - 10 min.	--
Initial set at 30° C	4-5 hrs.	--
Density of the mix	1.9 - 1.95 gm/cc	--
Bond strength to concrete	Concrete failure	ASTM D-4541
Hardness, Shore D	>85	ASTM D-2240
Abrasion resistance (wt loss method)	15-20 mg.	ASTM D-4060
Absorption	< 0.2%	ASTM C-413
Shrinkage	< 0.1%	ASTM C-531
Maximum service temp	80° C	---
Thickness	5 mm.	---
Theoretical Coverage	1 kit of 9.75 kgs will cover 1 sq.m @ 5mm.	