

Chemdeck DC

3-component, thixotropic, non-broadcast, antiskid epoxy-based flooring system for deck coating and antiskid coatings.

Product Description

Chemdeck DC is a 3-component, high-build epoxy floor coating system formulated as a textured top coat for an antiskid system. It offers a unique advantage of a high-strength, aesthetically pleasing anti-skid system without the use of abrasive coarse silica sand. It is available in various colours with a matt finish.


Uses

- Slip-resistant coating for concrete and cement screed
- For multi-storeyed and underground car park
- For maintenance hangars and for wet process areas, e.g. beverage and food industry
- For storage and assembly halls, maintenance workshops, garages and loading ramps.

Salient Features

 Good mechanical and chemical resistance

 Easy application, durable

 Excellent adhesion to substrate

 Good flow

 Matt Finish

Product Data

Appearance / colour:	Chemdeck DC[R] Resin:	White liquid
	Chemdeck DC [H] Hardener:	Transparent liquid
	pigment	Coloured Paste
Storage conditions /shelf life	6 months from date of mfg. If stored properly in undamaged seal packaging, at a temperature between 50 °C and 300 °C. It should be kept in a cool, well-ventilated area, away from heat, direct sunlight, sparks, and children.	

Chemical Resistance

Excellent resistance is observed against distilled water, detergent solutions, battery acids, engine oils, alkalis, and acids.

Mechanical/Physical properties

Physical properties of Chemdeck DC

Property	Test Method	Value and Unit
Mixing Ratio	NA	Pre weighed kit
Finish	CPI* 1001	Non porous, Matt
Pot Life @ 30oC	CPI 1002	20-30 minutes
Surface Dry	CPI 1002	4 Hours
Hard Dry [Open for foot traffic]	CPI 1002	24 Hours
Full Cure [Vehicular Movement]	CPI 1002	72 Hours

Mechanical properties

Compressive strength	ASTM C 579	>530 Kg/cm ²
Flexural Strength	ASTM C 580	>410 Kg/cm ²
Tensile Strength	ASTM C 307	>180 Kg/cm ²
Pull off Adhesion test	ASTM D 4541	Concrete Failure @ 18 Kg/cm ²
Abrasion Resistance[Taber]	ADTM D 4060	50 mg loss
Shore Hardness	ASTM D 2240	ASTM D 2240
Shelf Life	-	6 months in original unopened Container when stored between 5- 40°C

Method of Application

All Chemsol Products are recommended to be applied only by Approved Applicators and should be handled after using proper PPE's as Gloves, mask, goggles, etc.

Substrate Quality

The CDS (clean, dry, sound) test must be conducted before application of primer to the concrete substrate. The substrate must be free of all contaminants such as dirt, oil, grease, coatings, surface treatments, etc. If in doubt, apply a test area first.

Application conditions



Substrate temperature: 10-40 °C



Substrate moisture content: - <5%



Relative humidity: 80%max

*Note: The substrate temperature must be at least 30 °C above the prevalent dew point temperature to reduce chances of condensation on the floor.

Priming

The concrete surface, after proper and thorough surface preparation, has to be primed with an appropriate primer like **Chembase 150/160**. After priming, allow the surface to cure for 4-5 hours. Depending on the condition of the surface, an additional layer of Epoxy screed/ Epoxy Putty with chembase 150/160 and graded sand may be required to level out the surface undulations before application of the Topcoat of Chemdeck DC.

Application of Chemdeck DC coat

Ensure that the underlying coat is thoroughly cured and is dust free. Add pigment paste to the resin part and Stir mechanically for 1 minute in order to disperse the pigments into the resin uniformly.

Now add hardener and continue stirring for a further 2 minutes with a motorized helical paint stirrer until a uniform mix has been obtained. Once mixed material should be used within its specified pot life; the material is to be applied in a single coat application onto the primed surface/ epoxy screed. Spread material evenly using a notch trowel (0.5 mm Notch) and roll it evenly with a special "Chemsol textured roller" within 15- 20 min. to obtain the desired finish.

*Refer surface preparation guidelines for application of primer Chembase 150.

Curing Schedule

The epoxy curing reaction rate is temperature dependent. Refer the following table to know how quickly the floor can be brought to service

Temp.(deg C)	Foot traffic	Full cure
10°C	48 hours	120 hours
20°C	36 hours	96 hours
30°C	24 hours	72 hours

Cleaning of Tools

Clean all tools and application equipment with thinner EP140 immediately after use. Hardened and/or cured material can only be removed mechanically.

Packing

Chemtop 1000 Resin, Hardener and aggregates are available in 16.4 kg pre weighed kit which covers 10-12 sq.m area with an approximate thickness of 1mm.

Storage Conditions

Store in dry and covered shed between 5°C to 30°C, away from sources of heat and naked flame.

Handling & Safety

Keep the containers tightly sealed when not in use. Avoid skin contact and inhalation of fumes (if any). While spraying it is advised to wear a mask. If it comes in contact with the body, wash affected parts with plenty of water. In case of persistent irritation, contact a physician.

Disclaimer: The Information provided is based on our experience, thorough investigations & sophisticated testing methods but due to vast number of applications and usage methods Chemsol Polymer Industries cannot accept responsibility of any kind for any particular result. It is the responsibility of the user to verify the suitability of the product for their end use and in accordance with the rules and regulations of that country /territory. All information provided pertaining to our products should be treated only as a guidance tool without any guarantee or warranty of any sorts.

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