

# CHEMDECK 300

3-component, self-leveling, high-build, epoxy-based flooring system.

## Product Description

Chemdeck 300 is a 3-component, high-build epoxy floor coating system formulated as a sealer coat for an antiskid system. It is also suitable for high-build floor coating application with a roller.

## Uses

- Specially recommended as a sealer coat for anti-skid systems built with silica sand broadcasting.
- As an engine oil and battery acid resistant sealer coat for covered antiskid car parking and decks.
- Clean rooms, Aircraft hangars, pharmaceuticals, etc., wherever antiskid flooring is required.

## Chemical Resistance

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





## Product Data

Appearance / Colour:	Chemdeck 300[R] Resin: Chemdeck 300 [H] Hardener: Aggregate	Coloured liquid Transparent liquid Whitish Powder
----------------------	---	---

## Storage Conditions/Shelf Life

Storage conditions/12 months from date of mfg. if stored properly in shelf life, undamaged seal packaging, at a temperature between 5°C-30°C. It should be kept in a cool, well-ventilated area, away from heat, direct sunlight, sparks, and children.

## Salient Features

-  Good mechanical and chemical resistance
-  Easy application, durable
-  Excellent adhesion to substrate
-  Good flow

## Mechanical/Physical properties

### Physical properties of chemdeck 300

Property	Test Method	Value and Unit
Mixing Ratio	NA	Pre weighed kit
Finish	CPI* 1001	Non porous, Glossy
Pot Life @ 30°C	40,5	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

Property	Test Method	Value and Unit
Compressive strength	ASTM C 579	>530 Kg/cm <sup>2</sup>
Flexural Strength	ASTM C 580	>410 Kg/cm <sup>2</sup>
Tensile Strength	ASTM C 307	>180 Kg/cm <sup>2</sup>
Pull off Adhesion test	ASTM D 4541	Concrete Failure @ 18 Kg/cm <sup>2</sup>
Abrasion Resistance [Taber]	ADTM D 4060	50 mg loss
Shore Hardness	ASTM D 2240	D 75-80
Shelf Life	-	12 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 used after using proper PPE's like Gloves, mask, goggles etc.

### Application Conditions:

 **Substrate temperature: 10-40 °C**

 **Substrate moisture content: - <5%**

 **Relative humidity: 80%max**

\*Note: The substrate temperature must be at least 3 °( above the prevalent dew point temperature to reduce chances of condensation on the floor.

### Substrate Quality

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

### Substrate Preparation

\*Ensure that the primer coat is thoroughly cured and is dust-free. \*\*In case of broadcasting system remove the loose sand by brush and vacuum. Now the floor is ready to take the top coat of Chemdeck 300.

Stir the resin part mechanically for 1 minute in order to disperse the pigments into the resin uniformly. Add hardener to this mixture and stir continuously for 1 minute until a homogeneous mass is obtained. Add aggregates to this mixture and continue stirring for a further 2 minutes with a motorised helical paint stirrer until a uniform mix has been obtained. Overmixing must be avoided to minimise air entrainment.

Note that the mixture has a stipulated pot life; hence, the application should immediately commence after mixing the contents. Pour the material on the floor and spread it with a squeegee, and roll with a short pile roller to obtain the desired finish.

\*Refer to surface preparation guidelines for application of primer Chembase 150/Chemprime. \*\* For sand broadcasting guidelines, refer method of statement of Chemcast 300

## Curing Schedule

The epoxy curing reaction rate is temperature dependent. Refer to 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

Chemdeck 300 is available in a preweighed kit to cover an area of 10-12 sqm

## 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 soap and 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.

\*All CPI test methods are our scientifically designed internal test methods which can be shared upon request.

### Factory Address:

Plot No. C93, MIDC, Additional  
Jejuri, Tal: Purandar, District, Pune,  
Maharashtra, India. PIN: 412303

### Correspondence Address:

Office No. 101, G wing, KK  
Market, Dhankawadi, Pune-  
411043.

### Enquiry:

Mobile: +91-7720002824 | 020-24371247  
For Sales: sales@chemsolpoly.com  
For Materials: purchase@chemsolpoly.com