Chemdeck TF

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

Product Description

Chemdeck TF is a 3-component, high-build PU floor coating system formulated as a textured top coat for an antiskid system. It offers a unique advantage of high high-strength, aesthetically pleasing anti-skid system without the use of abrasive coarse silica sand.

Salient Features:

- Good chemical and mechanical resistance
- Easy application
- Excellent adhesion to substrate
- Glossy finish
- Seamless slip-resistant surface
- Easy to clean and maintain
- Wide range of colour options
- Slip resistance without quartz broadcast
- A variety of anti-skid textures is possible

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., the beverage and food industry
- For storage and assembly halls, maintenance workshops, garages, and loading ramps.

Product Data

Appearance / colour:	Chemdeck TF[R] Resin: Chemdeck TF [H] Hardener: Pigment :	White viscous liquid Brown liquid Coloure paste (supplied separately not part of kit)
Storage conditions /shelf life	12 months from date of mfg. if stored properly in 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.	

Chemical Resistance

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

Mechanical /Physical properties

Physical properties

Property	Test Method	Value and Unit
Finish	CPI* 1001	Anti-skid, Glossy/matt
Pot Life @ 30 °C	CPI 1002	20 minutes
Surface Dry	CPI 1002	2 hours
Hard Dry [Open for foot traffic]	CPI 1002	12 Hours
Full Cure [Vehicular Movement]	CPI 1002	72 Hours
Skid Resistance (ASTM E303)	(ASTM E303)	48

Mechanical properties

Elongation at break	ASTM D 638	30-40%
Pull off Adhesion test/ Bond Strengh	ASTM D 4541	Concrete Failure @ 1.7652 MPa
Abrasion Resistance[Taber]	ADTM D 4060	50 mg loss
Shelf Life		12 months in original unopened Container when stored between 5- 40 °C
Shore Hardness	ASTM D 2240	Shore D 75-80
Crack Bridging Ability	AS/NZD 4548.5 : 1999	0.1-0.2 mm

Method of Application

All Chemsol Products are recommended to be applied only by Approved Applicators and should be used after using proper PPEs like Gloves, masks, goggles, etc.

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.

Application conditions

Substrate temperature: 10-40 °C

Substrate moisture content: - <5%

Relative humidity: 8o%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 Chemprime 100/ Chembase 150. After priming, allow the surface to dry for 4-5 hours.

Application of Chemdeck TF 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 motorised 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 10- 15 min. to obtain the desired finish.

Curing Schedule

Vehicular movement on Chemdeck TF should be allowed ideally after 3 days of application, depending upon the ambient temperature & humidity.
This is a fast-curing system. 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	8 hours	120 hours
20°C	6 hours	72 hours
30°C	4 hours	72 hours

Cleaning of Tools

Clean all tools and application equipment with thinner PT 36 immediately after use. Hardened and/or cured material can only be removed mechanically.

Packing

Pre weighed kit to cover 15sqm at 500 micron thickness

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.

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

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