



HIND URETHANE TC

PRODUCT DATA SHEET

SINGLE COMPONENT MOISTURE CURED ALIPHATIC URETHANE TOP COAT FOR METAL AND CONCRETE STRUCTURES

DESCRIPTION

Hind Urethane TC is A single component moisture cured, aliphatic urethane top coat formulated with special grade of anti-corrosive fillers that has superior bonding, flexibility, barrier resistance to the substrate and offer excellent UV resistance.

USES

Hind Urethane TC can be used as follows:

- Pipeline exterior.
- In ports.
- Power, Oil and Gas including waste water treatment, chemical / fertilizer plants
- Structural steel like bridges ballast tanks, storage tank, sluice gate, off shore platforms, etc.

ADVANTAGES

- Tolerant to flush rusting.
- No Induction time.
- High resistance to majority of chemicals and abrasion.
- Compatible with most old coatings.
- UV resistant.

APPLICATION

Surface Preparation

- Remove all loose foreign particles, dirt, gravel, oil, grease or other loose particles by sand blasting / iron brush / compressed air.
- In case of steel pipe / structure, prepare surface by mechanical grinding, shot blasting conforming to SA 2½.
- Steel surface, in case of outdoor use, should be cleaned conforming to SA 2. In case of concrete surface, ensure that the surface is free of honey combs etc. Repair all honey combs fill with **Hind Patch R - Single Component Fiber Reinforced Repair Mortar**.
- Ensure that the surface is free of condensation / moisture before priming. Moisture should be less than 4%.

Mixing

- Stir **Hind Urethane TC** by a slow speed mixture (approx. 400 rpm) fitted with a paddler to ensure a homogenous mix.
- After stirring, the mixture is allowed to settle for 2-3 minutes in order to let the entrapped air escape away.

Application

- The surface to be primed with Prime surface with Hind Prime PU and allow it to dry.
- Apply **Hind Urethane TC** by single component airless spray gun / brush / roller.
- Allow it to dry for **10 - 12 hours** before subsequent coating is done.
- Drum, once opened, should be consumed totally.

PROPERTIES

Physical

Color	Pinkish Red
Density gm/cc	1.29 ± 0.02
Flash Point °C	30
Finish	Glossy
Cure Time @ 24°C, 60% RH	Touch Dry - 3 hours Full Cure time - 4 days Over Coating interval - 10 -12 hours
Theoretical Coverage*, m ² / Kg, 50 micron DFT	10-6
Recommended DFT, micron	50-60

* Coverage as stated above is depended upon surface condition. Actual spray, brush application loss to be considered to calculate requirement?

Chemical

Solid by volume % (ASTM D 2369)	54 ± 2
Salt Spray at 150 µ DFT, 5000 hrs. (ASTM B 117)	Passes
Flexibility, % (ASTM D 522)	>35
Accelerated weathering test, 1000 hours (ASTM D 4587) • Color Change (ASTM D 2244) • Gloss Loss (ASTM D 523)	< delta E QVA < 30, at 60° angle
Elasticity, Erichsen Scale (ISO 1520)	3
Abrasion resistance, gm, 1000 cycles, CS 17 (ASTM D 4060)	< 0.2

PACKING

Hind Urethane TC is available in **20 Kg Plastic Container**.

CLEANING OF TOOLS

Tools and equipment after use to be cleaned with thinner or suitable solvent. Cleaning should be done before the material starts to gel or harden.

SHELF LIFE & STORAGE

Best Before 6 months from the date of manufacturing in sealed unopened container at a temperature ranging between 5°C to 38°C and stored in a cool dry place under shed and away from heat and direct sunlight.

HANDLING PRECAUTION

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability to handle the equipment and to mix/stir and apply the coating correctly. Applicators and operators shall use appropriate protection when using this product. The guideline is based on the correct knowledge of the product.

HEALTH & SAFETY

While handling, all contact with eyes, skin, and clothes should be avoided. In case of any splashing in the eyes, rinse with cold running water for 10-15 minutes. Any accidental case seek medical attention immediately.

Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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(AN ISO 9001: 2015 COMPANY)

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