



## PolyUrethane SL TC 3K

Three Component Self Leveling Polyurethane Floor Topping

### DESCRIPTION

PolyUrethane SL TC 3K is three component polyurethane self leveling flooring. It is solvent free system. PolyUrethane is joint less monolithic, smooth, non porous hygienic, chemical resistant besides being easy to clean and maintain. PolyUrethane SL TC 3K can be applied from 1 mm thickness to 2 mm thickness.

### TECHNICAL DATA

Pot Life at 30 °C	20 – 30 minutes	Adhesion to Concrete	Excellent
Substrate Temperature	10 upto 35 °C	Water Absorption	Nil
Hardness (Shore D)	54 – 66	Compressive Strength	45 -55 N/mm <sup>2</sup>
Curing Time	24 hrs 72 hrs 7 days	Shrinkage	Nil
Foot Traffic		Coverage	1.75 kg/m <sup>2</sup> for 1 mm
Vehicle Traffic			
Full cure			

### CHEMICAL RESISTANCE

Acetic Acid 10%	Resistance	Ammonia 5%	Resistance
Boric Acid 4%	Resistance	Chlorine Bleach 4%	Resistance
Chromic Acid 10%	Resistance	Citric Acid 10%	Resistance
Diesel	Resistance	Disinfectants	Resistance
Formaldehyde 37%	Resistance	Formic Acid 10%	Resistance
Hydrochloric Acid 10%	Resistance	Hydrogen peroxide 10%	Resistance
Lactic Acid 25%	Resistance	Nitric Acid 10%	Resistance
Petrol/Super	Resistance	Phosphoric Acid 25%	Resistance
Phosphoric Acid 50%	Resistance	Sodium Lye 50%	Resistance

### APPLICATIONS

- Area requiring hygienic monolithic floor like pharmaceutical industries, operation theatres and corridors in hospitals and nursing homes, laboratories, bottling plant, dairies and breweries, fermentation floors in tea garden, food processing – fisheries, meat processing and pickles
- Nuclear plants, computer and control panel rooms
- Automobile workshops



- Oil rigs
- Industries mainly aerospace including airport hanger, electric and electronic industries, picture tube manufacturing plants, textile mills, portable water and food storage.

## **APPLICATIONS**

- Better adhesion and flexibility
- Resists chemical

## **APPLICATION METHODOLOGY**

- Prior to application, prepare substrate by mechanical means using qualified equipment e.g. shot blasting or scarifying etc.
- Ensure that substrate is free from cement laitance, dust, oil and other contaminants
- Ensure substrate has open, textured, absorbent surface
- Concrete residual moisture should not be more than 4% before proceeding application
- Apply PolyPrime Epoxy to make surface non porous on the cleared and prepared substrate by brush or by roller to form a thin continuous film at 250 gms/sqm and allow it to thoroughly dry for 6 – 8 hrs till touch dry
- Pour the component A slowly in to dried container. To this component A add component C slowly whilst mixing
- Mixing should be done by suitable low speed electric mixer at (300 – 400 rpm)
- Now mix this component A and component C thoroughly to achieve a homogeneous mixing
- To this mixer add component B slowly whilst mixing. Mix the mixer to achieve a homogenous mixing
- Pour the material on the primed surface and spread the material with notched trowel to achieve the desired thickness
- After spreading the material as per recommended coverage spike the surface with spike roller
- Rolling should be done to achieve excellent finish as well as to remove the entrapped air. Ensure that the spike roller is not applied too long to leave any permanent indentation on surface
- Prior to the application, during application and after application the substrate temperature should be above 10 °C



## **LIMITATIONS**

- Do not apply PolyUrethane SL TC 3K on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75%
- Do not apply PolyUrethane SL TC 3K to asphalt, weak or infirm concrete, unmodified sand / cement / screeds, PVC tiles or sheets or substrates known to movement
- Do not apply PolyUrethane SL TC 3K at temperature  $< 10^{\circ}\text{C}$  or  $> 45^{\circ}\text{C}$

## **CLEANING AND MAINTENANCE**

- Clean all tools immediately after use with xylene. Do not allow material to harden
- Service life of floor will be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a warm miscible cleaning agent at temperature up to  $50^{\circ}\text{C}$ .

## **HEALTH AND SAFETY**

- The product should not come in contact with the skin and eyes, or be swallowed
- Ensure adequate ventilation and avoid inhalation of vapours
- In case of contact with skin, rinse with plenty of water, then clean with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eye, rinse immediately with plenty of clean water and seek medical advice
- If swallowed seek medical attention immediately, do not induce vomiting.

## **PACKAGING**

Available in 14 kgs composite pack.

## **STORAGE**

Must be stored in original packing at ambient temperature, dry place under shed away from heat.

## **SHELF LIFE**

If stored in original unopened sealed under the above conditions, it has a shelf life of 12 months.