



PolyDeck SL TC 3K

Three Component Pigmented Self Leveling Epoxy Floor Top Coating

DESCRIPTION

PolyDec SL TC 3K is a three component pigmented epoxy floor coating which is laid at a thickness form 0.5 mm to 2 mm. PolyDeck SL TC 3K provides monolithic, smooth, non porous, hygienic, chemical resistant and easy to clean and maintain floor. It is available in a number of colours and has sufficient strength to withstand industrial traffic with nylon / rubber wheels. PolyDec SL TC 3K is tested by CFTRI as per 21 CFR 175-300 of US FDA test method.

TECHNICAL DATA

Pot Life at 30 °C	60 – 70 minutes	Coverage per 26 kg	8 m ² for 2 mm
Shrinkage	Nil	Water Absorption	Nil
Compressive Strength	45 – 55 N/mm ²	Flexural Strength	32 - 38 N/mm ²
Tensile Strength	16 - 20 N/mm ²	Bond Strength	2 - 4 N/mm ²
Elongation at break, %	7 - 9	Shore Hardness	70 - 80
Curing Time at 30 °C			
Foot Traffic	24 hrs	Full Cure	7 days

APPLICATIONS

- Area requiring hygienic monolithic floor like pharmaceutical industries, operation theatres and corridors in hospitals and nursing homes, pathological laboratories, bottling plants, dairies and breweries, fermentation floors in tea garden, food processing - fisheries, meat processing and pickles processing units
- Nuclear plant, computer and control panel rooms
- Industries like aerospace including airport hangers, electric and electronic industries, picture tube manufacturing plants and textile mills
- Automobile workshops and showrooms
- Oil rigs

ADVANTAGES

- Resists chemical, fungal and bacterial growth
- Abrasion resistance and easy to apply with flow able consistency
- Excellent bond to concrete and other substrate like kota stones (seamless & non staining)
- Provides monolithic surface with good aesthetics.



APPLICATION METHODOLOGY

- Ensure that surface is sound, firm, free from dust, laitance and 28 days cured. Moisture content should not be exceed 5% before proceeding application. The grade of the concrete should not be less than M-25
- Remove all oil, grease by washing with liquid detergent followed by acid wash or by burning
- Remove dust flakes or other foreign particles by jet or dry air and clean the surface mechanically by scarifying or by grinding to make it smooth before application
- Remove any lime distempers or acrylic coating prior to applying PolyDeck SL TC 3K by surface grinder
- Do not apply PolyDeck SL TC 3K over treated expansion joints. Treat expansion joints with PolySeal PS
- Treat control joint and construction joint with Polygon 456 mortar
- Cut open the concrete floor at ends near to door entrances, around trenches and gutters around 10 mm deep and 10 mm wide to accommodate blade and anchor PolyDeck SL TC
- Make concrete surface textured by scarifying / shot blasting
- Mix Component A and Component B of PolyPrime Epoxy (Primer) and apply on the cleared and prepared surface 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
- Stir Component A and Component C of PolyDeck SL TC 3K separately with a hand drill type spiral stirrer. Mix PolyDeck SL TC 3K thoroughly with the help of drill mixer till homogenous mixed is obtained. Then add Component B slowly, ensuring complete dispersion after adding Component B. Mix for 5 – 10 minutes.
- Lay PolyDeck SL TC 3K after mixing. Spread mix evenly over recommended area using a steel trowel with notches. The notch of the trowel should be double the thickness of the PolyDeck SL coating
- Anchor PolyDeck SL TC 3K near walls, around columns/ foundations and at edges of trenches / gutters / bays and expansion joints
- Use spike roller with long handle on applied PolyDeck SL TC 3K to remove entrapped air Ensure that the spike roller is not applied too long to leave any permanent indentation on surface
- When applied over steel surfaces, underlayment of PolyScreed C is must. Thickness of concrete coat should be maintained minimum of 5 mm. For application methodology of concrete coat, refer to TDS of PolyScreed C.



LIMITATION

- Do not apply PolyDeck 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 PolyDeck 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 PolyDeck SL TC 3K at temperature < 10 °C or > 45 °C
- In common with all epoxy material some shades may fade in the long term, when exposed to adverse conditions. Such changes, if any, are normal and have no effect of performance of PolyDeck SL TC 3K.

CLEANING AND MAINTENCE

- 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 °C.

HEALTH AND SAFETY

- Use mask, nose cover and hand gloves during application
- Clean hands with soap after application
- The product should not come in contact with the skin and eyes.
- Avoid contact with skin / eye. In case of unlikely contact with skin / eyes, rinse immediately with plenty of clean water, then clean with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

PACKAGING

Available in 26 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.

