TDC 83

<Product Information >

- **Description**: **POLYURETHANE SELF LEVELLING COATING**
  TDC 83 are high-performance,traffic - Friendly, two-part polyurethane coatings for vehicular (heavy duty)
  TDC 83 is a coating material. Polyurethane based, solvent free, with high resistance to chemicals, corrosion; flexible, ability to create crack bridge and bright.

- **Product advantages:**
  - Solvent free
  - Excellent adhesion
  - High flexibility
  - Sanitary
  - Resistant to chemicals
  - High strength to Forklift and heavy traffic conditions
  - Does not cracked and shrink

- **Technical specifications:**
  - Color : RAL Colors
  - Component number : 2
  - Mixture ratio : A/B 4/1
  - Density : +20ºC 1,60 gr/cm^3
  - Pot life :30+10 min.(changes according to humidity and temperature)
  - Exact hardness : 48 hour
  - Surface temperature : +5°C/+35°C
  - Viscosity : fluid
  - Shore D : 60
  - Curing time : 4 – 6 hours
  - Pressure resistance : 45 kg/cm^2
  - VOC : : 5G/L
  - Package :20 Kg

- **LIMITATIONS:**

  - Do not apply primer or coatings to a frosty, damp or wet surface.
  - Do not proceed with coating application if temperature is below 40°F or if rain is imminent within 8 hours after application. Cure time is slower in cool weather.
  - Polyurethane coating cure times may be significantly faster than listed when temperature and/or humidity are high.
  - If metal pan is used for concrete form, the pan must be vented. Not for use on grade.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	TDC 83 Top Coat
Tensile	ASTM D-412	4200 psi
Elongation	ASTM D-412	100%
100% Modulus	ASTM D-412	N/A
Hardness	ASTM C-661	75 Shore D
Permeability	E-96	N/A
Viscosity, cps	Brookfield HBT	2000
Cure Time at 77° F,50% R.H.	ASTM D-1640	24 hours,
Solids Content	ASTM C-792	99+%
Crack Bridging	N/A	N/A
Tear Strength, psi	ASTM D-642	N/A
Peel Strength to Base Coat	N/A	100% c.f.
Peel Strength, pli (concrete)	ASTM C-794	Concrete Fail.
Peel-off Adhesion	ASTM D4541	N/A
Abrasion Resistance	120 psi cycles	100,000

- **Application area:**

TDC 83 can be used in factories, warehouses, car park , concrete surface which needs chemical and mechanical resistance and all hygienic places.

- **Mixture:**

Component A mixed with a low circuit mixer.(400 tour/minute). Component B adds into the Component A and again mixed for a 2-3 min. Silis sand required applications; put the mixture into a clean pot and again mixed with sand for 3-4 min.
The homogenous mixture applied to surface as required thickness with suitable tools. For avoiding the air bubbles; hedgehog roll should be used. Application can be done with notched trowel or roller .

- **Surface:**

The surface should be purified from humidity. The application field should be cleaned out all other coatings and purified from oil, dust, dirt and slack materials. The surface temperature should be +5ºC and humidity ratio should be max. 4%.

- **Primer:**

Surface should be undercoated with primer **TDC 014**. For absorbent surfaces the second ply should be applied. Duration time before application of second ply; after be sure of the first ply get dry . If higher resistance required Silis sand should be put on to the primer before getting dry totally.

- **Application time:**

It depends on the size of pot and weather temperature. For 500 gr mixture, at the +23ºC temperature, approximately 25 minute. Application time can be reducing at high weather temperatures.

- **Storage:**

Pails should be stored ina dry and cool rooms for up to 6 months. Protect the material against moisture and direct sunlight. Production date is on label. Packages should be storage upward.

- **Safety:**

Wash with water if the product contacts the skin; if contact with eyes occurs, take medical advice. Keep away from children. Do not use the empty packages for the storage of nutriment.

The information and recommendations contained herein are based on the current state of our knowledge. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained here.