

ShaliPatch[®] EC

3K Self Leveling Modified Elastomeric Concrete



STP Limited

Description

ShaliPatch[®] EC (formerly known as ShaliSeal CTE) is a three-component, cold applied, polymerized elastomeric concrete with excellent adhesion to substrate for

- crack filling ranging between 5 - 50 mm wide in concrete / flexible roads, and
- surface correction in concrete road / pavement.

ShaliPatch[®] EC is self leveling, easily trowel-able into cracks and spall. It prevents percolation of water and other chemicals thus protecting it from wearing off.

Characteristics

Colour	Black / Grey	Chemical Resistance	Excellent
Drying Time, Touch, Hr	1.0 – 1.5	Usable temperature, °C	5 to 50
Pot Life, hr, at 30°C	1	Hardness (Shore A)	80 - 90
Solid % by volume	100	Curing Time	2– 10 hr 3 days
Open to traffic time, hrs, minimum	1.5		
Mixing ratio, by wt., A:B:C	3.6 : 0.9 : 5.5	• Over coat	
Elongation at break, minimum %	20	• Full cure	
		Impact, -15 °C, 1 lb., 10 ft	No Cracking

Application

- Roadways.
- Bridges / Highways / Runways / Apron / Taxiways.
- Parking Decks.
- Commercial Structures.
- Substrate concrete.
- Airfield Lighting.
- Industrial Floor.



Advantages

- Tough, Flexible and Durable.
- Rapid Cure time.
- Excellent resistance to chemical, saltwater, oil, acids, alkalis, crude oil, fuels and minerals.
- Compatible with both coal tar and asphalt emulsion based sealers.
- Compatible with both concrete and bituminous pavement.
- Excellent to repair surface defects of the road.

Application Methodology

➤ Surface Preparation

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air.
- Ensure that-
 - The surface is structurally sound.
 - In case of new concrete road, concrete is at least 28 days old.
 - Ambient temperature is not less than 10 °C and not more than 35 °C at the time of application.
 - There is no standing water in the area to be repaired or in the area of application.
 - Mechanically grinding the surface is acceptable only when sand blasting is not possible.
- Saw cut area to be repaired in geometrical shape.

➤ **Material Preparation**

- Stir containers thoroughly for uniformity.
- Stir containers of each component thoroughly for uniformity.
- Mix component A (Resin) & component C (Aggregate) thoroughly by using speed drill mixer (300 – 400 RPM) with a spiral type blade at the bottom of stirrer rod till homogeneous mix is obtained.
- Then add component B (Hardener) slowly, ensuring complete dispersion. Mix for a minimum of 2 - 3 minutes.

➤ **Application of Material**

- In case of concrete surface, prime the surface with ShaliPrime PUM.
- Pour mixed material in to the cracks, finish surface with trowel, if required.
- Allow it to dry at least two hours before opening traffic. Curing time will vary according to weather conditions.
- Do not install **ShaliPatch® EC** when any moisture is present or pavement temperature is below 10 °C.

Health & Safety

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, wash immediately with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

10 kg pack consists of Component A (Resin) - 3.6 kg, Component B (Hardener) - 0.9 kg and Component C (Aggregate) – 5.5 Kg.

Storage

Do not allow product to freeze. Store in a dry area at temperatures between 10 °C and 35 °C in the original unopened containers.

Shelf Life

12 months in original unopened sealed conditions.



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