

ShaliPatch[®] EC 10

3K Self Leveling Modified Elastomeric Concrete



STP Limited

Description

ShaliPatch[®] EC 10 (formerly known as ShaliPatch EC) 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 10 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 - Physical

Colour	Black / Grey	Mixed density	1.7 ± 0.03		
Drying Time, Touch, minutes	60	Application temperature, °C	5 to 45		
Pot Life @ 30 °C, minutes	6 ± 1	Chemical Resistance	Excellent		
Solid % by volume	100	Curing Time			
Open to traffic time, hrs, minimum	1.5			• Over coat, hrs	2
Mixing ratio, by wt., A:B:C	3.6 : 0.9 : 5.5			• Full cure, days	3

Characteristics - Technical

Property	Method	Result
Elongation after 7 days %, min	ASTM D 412	45 ± 5
Compression, Mpa	ASTM D 695	3
• 4 hrs		11
• 1 day		
Stress @ 5% deflection, 4 hrs, Mpa	ASTM D 695	2.1
Tensile strength, 7 days, MPa	ASTM D 412	1.22 ± 0.07
Hardness, Shore D	ASTM D 2240	52 ± 3
Impact, -15 °C, 1 lb., 10 ft	ASTM D 3029	No Cracking

Application

- Excellent patching material for cracks and spalls on
 - Airport runways / Apron / Taxiways.
 - PQC Roads / Bridges
 - Parking decks.
 - Industrial floors
- Easy to use solution in retrofitting airport runways with lighting.

Advantages

- High-load bearing capacity
- Outstanding anti-spalling properties
- Tough, Flexible and Durable.
- Rapid Cure time.
- Excellent resistance to chemical, saltwater, oil, acids, alkalies, 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 and dry.
 - In case of new concrete road, concrete is at least 28 days old.
 - Ambient temperature is not less than 5 °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 leaving only sound concrete.

➤ Material Preparation

- Stir Component A thoroughly for uniformity.
- Mix entire pre-weighed component A (Resin) & entire pre-weighed component C (Aggregate) thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod till homogeneous mix is obtained.
- Then add entire pre-weighed 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 S.
- Allow it to surface dry for 30 minutes to 4 hrs depending on ambient condition.
- 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 10** when any moisture is present or pavement temperature is below 5 °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.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing & Insulation ■ Road Surfacing
- Sealants & Adhesives ■ Pipeline Coatings
- Protective/Anti-Corrosion Coatings ■ Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation ■ Other Construction Chemicals



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