

ShaliPatch® EC 20

3K Self Leveling Modified Elastomeric Concrete



Description

ShaliPatch® EC 20 (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 20 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	1.80 ± 0.05
Drying Time, Touch, minutes	60	Application temperature, °C	5 to 45
Pot Life @ 30°C, minutes	10 ± 1	Chemical Resistance	Excellent
Solid % by volume	100	Curing Time	
Open to traffic time, hrs. minimum	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	30 ± 2
Compression, MPa	ASTM D 695	3
• 4 hrs.		5
• 1 day		
Stress @ 5% deflection, 4 hrs., MPa	ASTM D 695	2
Tensile strength, 7 days, MPa	ASTM D 412	1.3 ± 0.07
Hardness, Shore D	ASTM D 2240	47 ± 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, 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 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.

➤ Material Preparation

- Stir Component A thoroughly for uniformity.
- Mix component A (Resin) & 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 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 / ShaliPrime® 2E SF**.
- Allow it to surface dry.
- 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 20** 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.



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Enhancing Structures' Life

Product Range

- Waterproofing and Insulation ■ Road Surfacing
- Sealants and Additives ■ Pipeline Coating
- Protective / Anti-Corrosive Coating ■ Epoxy Flooring
- Grouts / Admixtures ■ RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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