



TechFin® Patch O Flex

High Performance Self-Levelling Modified Elastomeric Concrete system.

Description:

TechFin® Patch O Flex is a three-component, cold applied, self-levelling polymerized elastomeric concrete system specially design and developed in use with specially blend aggregates to repair potholes, bridge decks, driveways, parking decks PQC repair, etc.

TechFin® Patch O Flex has the unique ability to absorb energy from impact loads and disperse this energy throughout the header material, reducing cracking and spalling. It has excellent adhesion to substrate for crack filling ranging between 5 - 50 mm wide in concrete / flexible roads, and surface correction in concrete road / pavement.

Application Includes:

- 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.
- Nosing material in expansion joints

Features & Benefits:

- **3-Component Kit** – Pre-measured ratios allow for easy mixing in the field. No proportioning required
- **New easy mix technology** – designed to make onsite mixing easier on both equipment and labour
- **Fast cure/set time** – Allows for quick return to service in as little as 2 hours after placement
- **Extended pot life** – allows for greater time to place without compromising final set up time.
- **Toughness** – It has tremendous physical properties allowing for deflection under load without destroying the matrix
- **Chemical resistance** -Excellent resistance to chemical, saltwater, oil, acids, alkalis, crude oil, fuels and minerals.
- **Easy Installation**- Larger unit size has better pour consistency, reduced mixing & installation time, decreased labor costs.

Application Instructions:

Surface Preparation

New concrete- should cure 80% of the design strength. Concrete should be minimum 14 days old. Sandblasting with medium grit sand is the preferred method of surface preparation. Mechanically grinding the surface is acceptable only when sandblasting is not possible. The surface should be prepared so as to add a prole to the new concrete.

Existing concrete -should be cleaned of all oils, greases, dirt, waxes, existing coatings, curing compounds, heavy laitance and sharp edges. Sandblasting with medium grit sand is the preferred method of surface preparation. Mechanically grinding the surface is acceptable only when sandblasting is not possible. The surface should be prepared so as to add a new prole to the concrete.

Priming:

Prior to mixing and placing the elastomeric concrete, prime the substrate(s) coming in contact with the elastomeric concrete. Both vertical and horizontal surfaces should be primed with TechnoSeal® Prime Plus. The material should be applied using a paint brush and in a single coat.

Mixing:

- Stir Component A thoroughly for uniformity.
- Mix component A (Resin) & component C (Special 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 & Finishing

- Prime the surface with TechnoSeal® PrimePlus.
- 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 **TechFin® Patch O Flex** when any moisture is present or pavement temperature is below 5°C.

Cleaning:

TechFin® Patch O Flex should be removed from tools, equipment and mixers with Use Xylene or Toluene as an Equipment cleaning solvent immediately after use. Cured material can only be removed by mechanical means.

Packaging:

10 kg pack consists of Component A (Resin) - 3.5 kg, Component B (Hardener) - 1.0 kg and Component C (Special Aggregate) - 5.5 Kg.

Storage & Shelf Life:

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +10°C to 35°C.

Coverage:

1 kg will fill approximately 30-35 m length of cracks cut into 1mm x 6 mm deep V-grooves. Coverage would depend upon porosity of substrate.

Disclaimer: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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Typical Properties at 25°C

Colour after mixing	Grey
Working life @ 30°C, minutes	10 ± 2
Setting Time	2 - 3 hr
Mixed density	1.7 ± 0.03
Application temperature, °C	5 to 45
Solid % by volume	100
Chemical Resistance	Excellent
Compression, Mpa ASTM D 695	@ 4 hours -3, @ 1 day -5
Open to traffic time, hrs, minimum	2
Curing Time	
Over coat, hrs	2
Full cure, days	14
Mixing ratio, by wt., A:B:C	3.5 : 1 : 5.5
Elongation after 7 days %, min ASTM D 412	30 ± 2
Tensile strength, 7 days, MPa ASTM D 412	1.3 ± 0.07
Hardness, Shore D ASTM D 2240	47 ± 3

Precautions/Limitations:

Direct contact with the skin should be avoided. Protective clothing, goggles and gloves are recommended. In case of contact with eyes, wash immediately with water and report it to a doctor. TechFin® Patch O Flex is moisture sensitive. Prime all surfaces prior to installation.

Do not install product unless initial cure can be reached prior to rain fall. **TechFin® Patch O Flex** Aggregate (Part C) is specially formulated and must be dry prior to mixing. Parts A & C must be pre-mixed first and then add part B.

Health & Safety Instructions:

Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended.

Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

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