

ShaliFix[®] EM

3K Solvent Free High Strength Epoxy Mortar



STP Limited

Description

ShaliFix[®] EM (formerly known as ShaliFix EM) is a 100% solid, solvent free, high performance, non-slumping, three component consisting of an epoxy resin, hardener and selected graded filler, providing a tough and resilient, surface when compared to concrete.

ShaliFix[®] EM can be used as multipurpose repair and adhesive mortar including bedding mortar, adhesive and non-sag concrete repair mortar.

ShaliFix[®] EM mortar may be applied at thickness of minimum 10 mm.

It conforms to ASTM C 395 – 01 (2012)

Characteristics

Compressive Strength, MPa		Working Time, Minimum, 30 °C	30 – 40
• 1 day	40 - 50	Flexural Strength, Mpa	25 - 27
• 7 days	70 - 80	Tensile Strength, Mpa	14 - 16

Chemical Resistance

ShaliFix[®] EM is resistant to a variety of chemicals as given below

Acetic Acid	10%	Nitric Acid	25%
Ammonium Hydroxide	25%	Sulphuric Acid	10%
Caustic Soda	50%	Sulphuric Acid	50%
Citric Acid	10%	Lactic Acid	10%
Phosphoric Acid	50%	Hydrochloric Acid	10%
Saturated Sugar	50%	Fuel / Oil resistance	*

* Generally resistant to fuel / lubricant / other oil. However, it is recommended to apply a coat of ShaliUrethane TC to ensure avoidance of even small quantity of penetration of fuel / lubricant / other oil.

Application

- Apron / Taxi area in airports.
- Car parks and workshops.
- Warehouses.
- Dairies / Food & Beverages production facilities.
- Chemical / Fertilisers Plants.
- Metal treating plants.

Advantages

- Solvent free. No odour during application.
- Provides non-absorbent, non-dusting, durable, chemical resistant surface.
- Dries in eight hours to allow foot traffic.
- High tensile and high compressive strength.
- Slip resistant - different textures available to suit different conditions.

Application Methodology

➤ Surface Preparation

• New Concrete Floor

- Ensure that concrete should be at least 28 days old and moisture content is < 5%.
- Ensure that surface is sound and free from dust, laitance and other contaminants
- Remove any oil, grease etc by acid etching or by burning.
- Allow the surface to dry.

• Old Concrete Floor

- Ensure a sound cleaned substrate and remove all laitance deposits by light mechanical scabbing, grinding or grit blasting.
- Remove any oil, grease etc by acid etching or by burning.
- Repair any damage or surface irregularity with ShaliFloor EU.

➤ Material Preparation

- Mix entire Comp B (Hardener) into entire Comp A (Resin), both of which are pre-weighed, thoroughly by using a drill mixer fitted with suitable paddle till a homogenous mix is obtained.
- Add entire pre-weighed Comp C (Filler) in the above mixture and mix for additional 2 minutes or until all aggregate pieces are completely covered by the epoxy.

➤ Application of Material

- Priming is not normally required provided the substrate is sound, untreated and good quality nonporous concrete.
- If any doubts exist of the quality of the concrete, or if it is porous, prime the surface with ShaliPrime 2E which is two components. Care must be taken to mix the entire pre-weighed component as directed.
- Allow the primer to achieve tack free condition.
- Apply the prepared mixed **ShaliFix® EM** immediately as below
 - Apply first coat of 5 mm **ShaliFix® EM** using a trowel or squeeze to achieve a continuous coating.
 - Apply second coat after initial cure of 12 hrs @ 27 °C.
 - Ensure to achieve continuous film
- In case of anti-slip application, use metallic broom to give a textured finish immediately after laying on the top coat.
- Ensure expansion joints in the existing substrate is retained and continued through **ShaliFix® EM** topping. The joint can be filled with ShaliSeal EMS 700.

Cleaning & Maintenance

Clean all tools immediately after use with Xylene. Do not allow the material to harden.

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 skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 20 kg combo pack consisting of Component A (Resin) 2.90 kg, Component B (Hardener) 0.50 kg and Component C (Filler) 16.60

Storage

Store in a cool dry place, under shed, away from heat.

Shelf Life

12 months in original unopened sealed conditions.



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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