

ShaliFix[®] SC M

Fast setting High Strength Cementitious Roadway Patching Compound



STP Limited

Description

ShaliFix[®] SC M is a single component portland cement based mortar ready to use material for repairs to trafficked concrete. **ShaliFix[®] SC M** provides a durable, strong repair fully compatible with host concrete.

Product Information

Appearance	Grey powder in single pack system.
Handling & Storage	Store under cover out of direct sunlight, moisture and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Packaging	Available in 30 kg moisture resistant bags.
Shelf Life	6 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C.

Technical Characteristics @ 27°C, 55% RH

Appearance	Grey Powder
Water to Powder Ratio*	0.12 - 0.13
Coverage, kg / m ² / mm	2.40
Setting Time, minutes	30 - 35
Workable time*, minutes	15 - 20
Compressive strength, MPa, minimum, ASTM C 109 <ul style="list-style-type: none">• 4 hrs.• 3 days• 7 days• 28 days	<ul style="list-style-type: none">> 14> 30> 45> 55
Tensile Strength, MPa @ 28 days	> 2.5
Flexural Strength MPa @ 28 days	> 6

*Water to powder ratio may vary depending consistency required for end use and climatic condition.

Note: The above test results were achieved under laboratory conditions. Tested at fluid consistency of 1.2 L of water per 10 kg powder material.

Field of Application

- Repair of bridge deck, concrete road, airport runways or aprons.
- Forklift trafficked floor.
- Industrial shop floor
- Structural repair for roadways, parking lot, ware house, bridges, dam, machinery, turbine floors
- Repair of damaged concrete in balconies, terraces, walls, beams
- Road repair: Horizontal repairs, manholes placement (bedding and bonding) road / joint nosing
- Paving: Grouting pavement stone, joint filling

Advantages

- Can be used on in situ or precast floor to provide level surfaces without screeding.
- One pack product – simply mixed with water on site.
- No bonding agent require –simple installation.
- Quick easy laying and fast hardening.
- Rapid re-opening to foot traffic, even at low temperature.
- Low permeability & higher durability.
- Does not contain any chlorides or additive which may contribute to corrosion of base structure

Application Methodology

➤ Surface Preparation

- Surface to be plugged must be clean & free from dust, oils, grease curing compounds, residual mould oils or other contaminants that could impair adhesion.
- Excess laitance should be removed by light scabbling, blasting or grinding and vacuuming to remove dust debris. Light oil and grease staining can be removed with proprietary chemical degreaser, followed by washing with clean water.

➤ Material Preparation

- In a mortar mixing machine initially add **ShaliFix[®] SC M** followed by the addition of water in the W/P ratio 0.12 - 0.13. Mix thoroughly for 4 - 5 min. until a homogenous mixture is obtained.

➤ Application of Material

- After achieving consistency in the mixture, pour immediately on the floor & allow to level. The material can then be finished with a steel trowel.
- Best results are achieved when the pouring and leveling is a continuous process until the designated area is completely levelled. Due to the thickness of application, it may be necessary to use formwork in certain situation.
- Use the entire prepared material within 15 minutes.

ShaliFix[®] SC M may be applied in a range of thickness as follows:

- Upto 15 mm – Without free aggregate
- 15 - 30 mm – with 6 mm (20% on Powder) silt free aggregate
- 30 - 50 mm – with 10 mm (25% on Powder) silt free aggregate
- 50 - 100 mm – with 20 mm (30% on Powder) silt free aggregate

Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

Health & Safety Information

- 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.

Cleaning

Tools and mixer may be cleaned with water before mortar paste has hardened, otherwise mechanical cleaning will be required.



STP Limited
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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