

ShaliFix RM SG 01

2K Structural Grade Polymer Modified Reinstatement Mortar



STP Limited

Description

ShaliFix RM SG 01 is supplied as a grey powder along with a liquid polymer and has to be mixed with water on site to produce a highly consistent, high strength repair mortar. The material is based on carefully blended cement, graded fillers and chemical additives and is polymer modified to provide a mortar with good handling characteristics, while minimising water demand. The hardened product exhibits excellent thermal compatibility with concrete and outstanding water requirement ensures fast strength gain and long-term durability. **ShaliFix RM SG 01** is designed for vertical or horizontal applications. It can be applied from a minimum of 5 mm to 15 mm thickness in vertical section. Higher thicknesses can be achieved by the use of formwork.

Characteristics

Compressive Strength, N/mm ² <ul style="list-style-type: none">• 1 day• 28 days	12 45	Flexural Strength, N/mm ² , 28 days	8
Water Absorption after 24 hr, %	0.45	Chloride ion diffusion, mg/L, after 24 hr	NIL
Depth Carbonation, mm <ul style="list-style-type: none">• 2 hr• 4 hr	NIL NIL	Setting Time, hr <ul style="list-style-type: none">• Initial Set• Final Set	3 5
Fresh Wet Density, kg/m ³	Approx 2100	Coefficient of Thermal Expansion, °C	7 – 12 x 10 ⁻⁶

The above results were obtained at a water : powder ratio of 0.18 at 27 °C

Advantages

- High Strength.
- Can be applied by hand.
- Extremely low permeability provides maximum protection against carbon dioxide and chlorides.
- Excellent bond to the concrete substrate.
- Shrinkage compensated.
- No side batching required, supplied in pre-weighted pre-packed condition.
- Only addition of water at site to be made while mixing the powder and liquid parts.
- Contains no chlorides.

Application Methodology

- Saw cut or cut back the extremities of the repair locations to a depth of at least 10mm to avoid feather edging and to provide a square edge. Break out the complete repair area to a minimum depth of 10mm upto the saw edge.
- Thoroughly clean both surfaces which are to be stuck together to ensure removal of dust and other loose particles from concrete, plaster or other surfaces.
- Surface should be moistened before application of coating. But standing water should not be allowed.
- Apply primer in primed surface.
- For normal application, use 3.25 to 3.50 L of drinking quality water per 25 kg bag of **ShaliFix RM SG 01**. Always add polymer part into water and mix for 2 minutes. Then add powder part slowly and mix for 3 minutes until homogeneous material result.
- Apply the mixed **ShaliFix RM SG 01** to the prepared substrate by gloved hand or trowel. Thoroughly compact mortar on to the primed substrate and around the exposed reinforcement.

Cleaning

- Clean all tools immediately after use with clean water. Do not allow material to harden.

Health & Safety

- Use goggles and hand gloves during application.
- Clean hands with warm soap water after application.

Packing

Available in 25 kg bag.

Storage

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



Advisory Cell
STP Limited
+91 81302 81114
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