



Roka Rep Fiber

Single Component, Fiber Reinforced Cementitious, Patching and Repair Mortar

Roka Rep Fiber is a single component, synthetic fiber reinforced cementitious, silica fume and polymer containing, multi-purpose patching and repair mortar for tropical and hot climatic conditions.

Uses & Advantages:

- Single component.
- Excellent adhesion.
- Compatible with the properties of typical concrete.
- Low water absorption but vapour permeable.
- Shrinkage compensated.
- Resistant to freeze and thawing salts.
- Low water absorption but vapour permeable.
- Excellent chloride and carbonation resistance.
- Non-corrosive.
- Non-toxic, once cured.



+92 321 4543320



info@rokachemsolutions.com



rokachemsolutions.com



83 A, Block C, PAF Colony, Zarar
Shaheed Road, Lahore Cantt, Pakistan



Fields of Application:

Roka Rep fiber can be used on exterior and interior, on horizontal or vertical applications for cosmetic or structural repair of deteriorated concrete and mortar.

Technical Information:

Chemical Base	Cementitious, polymer modified powder
Color	Cement Grey
Consistency	Powder
Maximum Grain Size	~1.7 mm
Mixing Ratio	16 – 18% water by weight of powder
Density (Fresh Mortar)	2.25 kg/l
Pot Life	~45 minutes at 25°C
Layer Thickness	Minimum: 5mm Maximum: 30mm
Substrate Temperature	5 to 35 °C
Ambient Temperature	5 to 35 °C
Compressive Strength	50 N/mm ²
Tensile Adhesion Strength	Greater than concrete
Water Absorption	< 0.01 ml/m ² /sec



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Packaging	20 kg
Shelf life	12 months if kept in recommended conditions
Storage	Store in a dry area, in unopened and undamaged packaging, between 5°C and 35°C and away from direct sunlight.

Surface Preparation:

Before the application, the surface must be properly cleaned using suitable methods like blast cleaning or grinding to ensure that the surface is clean, dry, mechanically sound and free from any contaminants like oil, grease and laitance. In hot environments or on absorbent substrates pre-dampen the surface prior to the application. The surface must be Saturated Surface dry (SSD). Metal surfaces should be free from scale, rust, oil and grease and treated with a anticorrosion coating such as Roka ZR Primer.

Mixing:

Add 16 – 18% clean, cold water by weight of the powder to a suitable mixing container. Slowly add Roka Rep Fiber powder continuously mixing using a slow speed electric mixer for and mix for at least 3 minutes or until a homogeneous consistency is achieved.



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Application:

The use of a suitable bonding agent like Roka Latex or Roka Epo Bond is highly recommended for better results. While the bonding agent is still wet, apply the mixed material using a spatula or trowel and spread evenly to achieve desired thickness. Smooth the surface using a wooden or synthetic float as soon as the mortar starts to set. For any thickness greater than 30 mm, Roka Rep Fiber must be applied in several layers.

Limitations:

- Roka Rep Fiber should not be used at temperatures below 5°C.
- The material should be stored in the shade and chilled water should be used for mixing at temperatures above 35°C.

Curing:

Use of a suitable water based curing compound like Roka Cure WB is recommended especially in applications where ambient conditions may lead to rapid surface drying.

Cleaning:

Clean all the tools and equipment with water while the material is still wet. Hardened material can only be removed mechanically.



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Health and Safety:

Read product and safety data sheets and container labels for safe use, physical and health hazard information.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

All products are sold under our standard conditions of sale, which are available upon request. Any field services offered do not imply supervisory responsibility. For further information, please contact your local representative of Roka Chem Solutions.



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