

REC REPAIR M-319

Non shrink thixotropic fine repair mortar with fiber

PRODUCT

Rec Repair M-319 is a ready- to-use mortar composed of silica sand (reconstituted grain size range), special cement, microsilica, fibers, and additives that provide specific properties: non shrinking, thixotropic, high strength, high adhesion, and compactness. The highly compacted grains slows down carbonation.

PROPERTIES

- Non-shrinking
- Non-sweating
- High strengths
- Normal setting / fast hardening
- High strength at 24 hours
- Good resistance to sea water and to high-sulfate water
- Thixotropic
- Applicable by trowel

SCOPE OF USE

Repair of concrete surfaces, representing honeycombing and spalling of concrete surface.

CHARACTERISTICS

Appearance	Grey Powder
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CHEMICAL COMPOSITION

hydraulic binders, synthetic fibers, microsilica, selected mineral charges free from chlorides or metal particles.

PHYSICAL PROPERTIES

Grain size	0 to 1.5 mm
Yield	Approx.13 lit. mortar / 25 kg bag
Mortar density	2.05 - 2.25
pH	12
Thickness	2 to 20 mm in one coat
Flexural strength	8 MPa at 28 days
Compressive strength	50 MPa at 28 days
Adhesion on concrete at 28 days	> 1.5 MPa

*Results are obtained at 15% (18% in KSA, and 17% in Kuwait) water under lab condition at 22°C ± 1

*Properties listed above are only based on controlled laboratory samples and tests: Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

APPLICABLE STANDARDS

ASTM C942

ASTM D4541

BS 1542 - BS EN 12190

BS EN 196-1

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

This mortar may be applied to all sound substrates: concrete, masonry, rock and similar materials. Remove damaged concrete and laitance by jack-hammering, cold-chiseling, or running a concrete plane to get a sound, rough surface. The area must be surrounded by clean edges. Do not create feather edge. The surface must also be free from any trace of grease or oil. Remove dust from all surfaces to be repaired. Saturate the surface with water by copiously spraying just before application, and, if possible, 6 hours before application as well.

PRODUCT PREPARATION

Add 3.75 to 4.5 liters (a minimum of 4.25 liters in KSA and 4.5 liters in Kuwait) of clean water to a 25 kg Rec Repair M-319

bag. Mix until an homogenous mortar is obtained. Rec Repair M-319 must be used within one hour from mixing. Re-mixing with an extra amount of water is forbidden.

PRODUCT APPLICATION

Apply Rec Repair M-319 with a trowel and press hard on the surface. Run a mason's board across repaired surface, and smooth it. Apply a curing compound onto the surface as soon as application is finished to protect from wind and sunshine. Ideal application temperature is between + 5°C and + 35°C. If the application temperature is higher than 35 °C, make sure to use cool water to keep the mixed mortar temperature below 30 °C.

CONSUMPTION

Approximately 2 kg /m² per mm thickness.

STORAGE

12 months after manufacturing date in original and non-open packaging , under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention. The product is non-flammable.



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DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

NOTE

The information included on this Technical Data Sheet is the sole property of Reckon Chemicals Pvt Ltd. The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit.

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