

REC REPAIR M-318

Non shrink thixotropic repair mortar with fiber

PRODUCT

Rec Repair M-318 is a ready-to-use mortar mainly made of sand (reconstituted grain size range), special cement, fibres, and special additives that provide special properties: non-shrinking, thixotropic, high strength, high adhesion and compactness. The highly compacted grains slows down carbonation.

PROPERTIES

- Non-shrinking
- High strength
- Normal setting
- Good resistance to sea water and to high-sulphate water
- Thixotropic: It can be applied in a thick layer
- Prevents steel reinforcements from corrosion

SCOPE OF USE

- Repair of concrete surfaces, honeycombing, edges of steps and all types of load bearing situations
- Restoring the structure of damaged construction: columns, slabs, vault, mats and dam overflows
- Reinforcing of weakened structures such as balconies, pedestals and cornices

CHARACTERISTICS	
Active ingredients	Hydraulic binders, synthetic fibres, without any chlorides or metal particles
Appearance	Grey powder
Grain size	0 to 3mm
Yield	Approx. 25lit/50kg bag
	Approx. 12.5lit/25kg bag
Thickness	5 to 50mm in one coat
VOC and formaldehyde content ISO/FDIS 11890-2/GC-MS	None (<10µg/l)

*Compressive strength BS EN 12190 at 22°C ± 1:	
7 days	45 MPa
28 days	60 MPa
*Flexural strength BS EN 196-1 at 22°C ± 1:	
7 days	6 MPa
28 days	7 MPa
*Tensile strength:	
28 days (BS EN 1881 Part 207)	>2.5 MPa

*Adhesion Strength:	
28 days (BS EN 1881 Part 207)	>1.5 MPa

**Results obtained at 14% 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

BS EN 196-1: 1994
BS EN 6319 Part 2
BS EN 6319 Part 3
BS EN 6319 Part 7
BS EN 12190
BS 1881 Part 207: 1992 section B

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

Rec Repair M-318 may be applied on sound concrete, masonry, rock or similar materials. Remove damaged concrete and laitance by chipping with a pick or cold-chiselling to get a rough surface. The area must be surrounded by clean edges. Do not feather edges.

The surface must also be free from any trace of grease or oil. Brush or scrape corroded steel with a metal brush, or sand it to remove all rust particles.

Remove dust from all surfaces to be fixed. Saturate the surface with water by copiously spraying just before application, and if possible, 6 hours before application as well.

PRODUCT PREPARATION

Mix a 50kg bag Rec Repair M-318 with 7.5 to 8lit of clean water until a smooth paste is obtained. Use half the quantity of water for a 25kg bag.

PRODUCT APPLICATION

Rec Repair M-318 can be applied:

- Manually with a trowel
- By using a dry or wet spraying machine
- By pumping

Rec Repair M-318 must be used within one hour from mixing depending on temperature & site condition.

For thickness more than 50mm, it is recommended to apply Rec Repair M-318 in 2 layers. When the first coat is applied it must be directly roughened to increase bonding with the second coat.



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Re-mixing with an extra amount of water is forbidden. After application, cure the exposed surface by spraying cool water for 3 days, by covering with properly secured plastic sheeting. 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.

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.

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

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