

# REC REPAIR M-344

Green, durable, shrinkage compensated fiber reinforced thixotropic repair mortar

## PRODUCT

**Rec Repair M- 344** is a pre- bagged ready- to-use repair mortar made of cementitious materials, special sand and aggregates and special additives, when mixed with the correct amount of water and applied correctly produces a non-shrink, thixotropic, high strength, high adhesion repair mortar.

## PROPERTIES

- Green formula
- Moderate RCP
- Low CO2 emission
- Non-shrink
- High strength
- Normal setting
- Thixotropic

## 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	Special cementitious materials
Appearance	Grey powder
Grain size	0 to 4 mm
Yield	Approx 12.5 liters / 25 kg bag
Thickness	5 to 50 mm in one coat
Compressive strength BS EN 12190@ 21±2°C	60 Mpa @ 28 days
Flexural strength BS EN 196-1 @ 20±1°C	8 Mpa @ 28 days
Tensile strength BS 6319 @ 20±1°C	5 Mpa @ 28 days
Adhesion strength BS 1881 part 207	2 Mpa @ 28 days
Rapid Chloride Permeability ASTM C1202:2012	Very Low (<1000 coulombs )

## APPLICABLE STANDARDS

BS EN 12190:1999  
BS EN 196-1:2005

BS 6319 Part 7  
BS 1881 Part 207  
ASTM C1202:2012

## INSTRUCTIONS FOR USE

### SUBSTRATE PREPARATION

**Rec Repair M- 344** may be applied on sound concrete, masonry, rock or similar materials. Remove damaged concrete and laitance by chipping with a pick or cold-chiseling to get a rough surface. The area must be surrounded by clean edges; feather- edging is not permitted. 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.

For an optimal protection of steel, apply **Rec Repair M- 344**. Saturate the surface with water by copiously spraying just before application, and if possible, 6 hours before application as well.

### PRODUCT PREPARATION

Mix a 25 kg bag of **Rec Repair M-344** with 4 liters of clean cool water until a smooth paste is obtained.

### PRODUCT APPLICATION

**Rec Repair M- 344** must be used within one hour from mixing depending on temperature & site condition.

For thickness more than 50 mm, it is recommended to apply **Rec Repair M- 344** in 2 layers. When the first coat is applied it must be directly roughened to increase bonding with the second coat.

Re- mixing with an extra amount of water is forbidden. After application, cure the exposed surface by spraying cool water for 3 days, by using a curing compound like **Rec Cure E- 4** or 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.



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## 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.

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