

ECMAREP 502

Single component, Polymer modified, Fiber Reinforced, cementitious repair mortar

Description

ECMAREP 502 is polymer modified, fiber reinforced, cementitious mortar which is supplied as a ready to use blend of dry powders, which requires only the addition of clean water to produce a highly consistent, repair mortar suitable for structural concrete and masonry repairs. ECMAREP 502 may be hand applied or sprayed with suitable equipment. ECMAREP 502 can be applied in thickness from 10 to 50 mm in vertical and 30 mm in overhead situation.

Areas of Application

ECMAREP 502 is suitable for hand and spray application for repairs where higher strength with good adhesion with concrete substrates is required like

- Vertical and Overhead repairs to restore concrete
- General concrete and masonry repairs
- Voids greater than 10 mm deep
- Repairs to honeycombs in concrete surface
- Larger scale repairs where formwork can't be erected

Advantages

- Cost effective – shrinkage control enables repairs to be completed right first time.
- Enhanced durability - works in tandem with extremely low permeability to prolong effective working life
- Compatibility - aligns performance closer than ever before, to that of host concrete
- User friendly - specifically developed to provide an easy to apply product, suitable for local conditions
- Definable performance - positive benefits are easily demonstrated via a single, simple measurement

Technical Specifications

The following results were obtained at a Water/Powder ratio of 0.16 @ 27°C.

Appearance	Grey
Physical State	Free Flow Powder
Pot Life @27 °C	>30 Minutes
Bond Strength 28 Days	>2 N/mm ²
Compressive Strength (N/mm ²)	
1 Day	>15
3 Days	>30
7 Days	>50
28 Days	>60
Fresh Wet Density Kg/m ³	2300±100
ECMAREP 502 Required for 1 m ³ Volume, Kg	1850 - 1950



Application Instructions

Surface Preparation: The substrate surface must be free from oil, grease or any loosely adherent material. The surface must be scabbled or sand blasted to remove all weak cement laitance. Surface laitance and unsound concrete must be chipped away so that a reasonable rough, but strong sound surface is achieved.

Mixing: Add 3.5 to 4 liters water for 25 kg ECMAREP 502 and mix using a mechanically powered grout mixer or drum mixture should be used with a slow speed drill (250-400 rpm) fitted with a paddle. Larger quantities will require a heavy-duty mixer. Mix 4- 5 Minutes until homogeneous mix is obtained and make sure that no unmixed powder is left at the bottom of the mixture.

Application: ECMAREP 502 shall be applied with a steel trowel on a prepared SSD concrete surface with a thickness from 10 mm to 50 mm. If the thickness is more than 50 mm, another layer shall be applied after 24 hours from the application time of previous layer.

Curing: After completion of the repair mortar application, exposed areas should be thoroughly cured. This should be done by the use of ECMACURE curing Compound or with continuous application of water.

Packaging

25 Kg HDPE Bags.

Shelf Life

06 Months in original unopened sealed condition.

Storage & Handling

Material should be stored in Cool and Dry shade away from moisture. Please do not use hook and handle carefully during transport.

Safety Precautions

Wear all PPE's at the time of application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoid contact with Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

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