

# ECMAREP 503

## Solvent Free, High Strength Epoxy Mortar

### Description

ECMAREP 503 is a three component, solvent free epoxy mortar with fast curing properties providing high early strength. ECMAREP 503 is solvent free material having excellent adhesion with concrete and steel substrates. ECMAREP 503 is supplied in pre weighted Pack A-Resin, Pack B-Hardener and Pack C-Special graded filler.

### Areas of Application

ECMAREP 503 is used as a high strength repair mortar or bedding mortar or gap filling mortar for anchoring or bolt fixing, repairing concrete surfaces, repair concrete floors, highways, etc.

### Advantages

- High Early Strength
- Easy Application
- High Chemical Resistance
- Cured mortar provides excellent mechanical strength and adhesion
- Non-shrink
- High tensile and flexural Strength.

### Technical Specifications

Appearance & Physical State	Pack A Pack B Pack C	Clear, Liquid Amber, Liquid Off White to Brown, Graded sand
Mixing Ratio	A:B:C	2:1:18
Mixed Density @27°C, Kg/m <sup>3</sup>		2100±100
Pot Life @27°C		>2 Hours
Compressive Strength (N/mm <sup>2</sup> ) 1 Days		>40
Compressive Strength (N/mm <sup>2</sup> ) 7 Days		>65
Tensile Strength (N/mm <sup>2</sup> ) 7 Days		>10

### Application Instructions

#### Surface Preparation

The substrate surface must be free from oil, grease or any loosely adhered material. The surface must be scabbled or sand blasted to remove all weak cement laitance. For excellent adhesion, use primer ECMAPRIME EP or ECMACOAT EP-SF or ECMABOND 512 prior to application of ECMAREP 503.

#### Mixing

Mix Hardener in Resin and then add filler in the given ratio using a mechanical paddle mixer or drill mixture with a slow speed drill (350-450 rpm). Mix for 4-5 minutes until homogeneous mix is obtained and make sure that no unmixed filler is left at the bottom of the mixture. Mix only sufficient material for immediate requirement and use as quickly as possible.



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## Application

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ECMAREP 503 shall be applied with a steel trowel on a prepared concrete surface in required thickness. For Excellent adhesion, use primer on concrete surfaces before application of ECMAREP 503 and allow 3-4 hours gap in between application of primer and ECMAREP 503.

## Precautions

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- Do not Apply on wet surfaces
- Store material under shade and protect from fire
- Clean all equipment with xylene or any cleaning agent after application

## Packaging

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21 Kg Kit (Part A + Part B + Part C)

## Shelf Life

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12 Months in original unopened sealed condition.

## Storage & Handling

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Material should be stored in Cool and Dry shade at temperatures between 5-30°C and away from flames. Please handle carefully during transport.

## Safety Precautions

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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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