

## JAZEMONOTOP 500

Single Component, High Performance, High Strength, Non-shrink, Polymer modified, Concrete Reinstatement Mortar for High Build Applications

### Product Description

JAZEMONOTOP 500 is ready-to-use high performance & high strength, polymer & fiber modified cementitious repairing mortar for high build applications which requires only the addition of water to produce non-shrink reinstatement mortar. It contains selected Portland cements, selected fillers, shrinkage compensating materials, polymer & fibers and modifiers that permits to be applied in a thickness more than 5-cm without any problems. The hardened product exhibits an excellent thermal compatibility with concrete and outstanding waterproofing properties.

### Uses

JAZEMONOTOP 500 is formulated to be used as non-shrink, high strength, non-sag waterproofing cementitious reinstatement mortar:

- On horizontal and vertical & overhead surfaces.
- As structural repairing mortar for industrial areas, bridges, tunnels, parking areas, walkways, retaining walls and dams.
- On grade and below grade upon concrete and mortar.
- Levelling mortar.
- Filler for voids and cavities.
- Where exceptional chloride and carbon dioxide resistance is required.
- In concrete repairing systems that require protecting the imbedded steel reinforcement.
- All similar works.

### Advantages

- Easy to mix and to apply up to more than 5-cm thickness in single application without problem.
- Non-sag & non-shrink.
- Compatible with thermal coefficient expansion of concrete.
- Excellent abrasion resistance.
- High mechanical properties.
- Extremely low permeability ensuring durability.
- Non-toxic and does not contain any harmful ingredients.
- Can be applied upon horizontal, vertical & overhead surfaces.
- Chloride and nitrate free.
- High bond strength to concrete and steel.
- Fiber reinforced, no risk for cracking.
- Formulated for the Middle East Climates.

### Standards

EAMIPAIR MONOTOP 500 is formulated to comply with all requirements of ASTM C-928



## Technical Properties

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<b>Appearance</b>	Grey free flowing powder
<b>Mixing Water / 25-Kg</b>	4 - 5Liters
<b>Yield</b>	12.50-liters
<b>Specific Gravity @20 °C (wet)</b>	2.1 – 2.2
<b>Setting Times @ 20 °C</b>	Initial setting time is 3-4-hours and final: 4hours
<b>Compressive Strength</b>	
After 7-days	40 N/mm <sup>2</sup>
After 28-days	50 N/mm <sup>2</sup>
<b>Flexural Strength</b>	
After 28-days	14 N/mm <sup>2</sup>
<b>Bond Strength to Concrete</b>	
After28-days	2 N/mm <sup>2</sup>
<b>Water Absorption (ISAT)</b>	
10-Mimutes	0.008 ml/m <sup>2</sup> /sec
2-hours	0.005 ml/m <sup>2</sup> /sec

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## Guide for Applications

### Surface Preparation

All substrates shall be sound, clean free from dust, grease & oil, dirt or any bond -inhibiting materials. The concrete substrates shall be saturated with water prior to the application, but no standing water shall be on the substrate.

Steel reinforcement shall be primed by JAZECOAT – EPZR after its surface preparation.

### Mixing

JAZEMONOTOP 500 shall be thoroughly mixed using mechanical mixing procedures. Mechanical mixing using spiral paddle in a slow speed (400- 500 rpm) heavy duty drill is recommended.

Put 3.5-4 Liters of clean water in the mixing vessel and start mixing while adding the powder gradually and continue mixing till homogenous free from lumps mortar is achieved.

JAZEBOND – AR or JAZELATEX can be added to the mixing water for special application to provide more physical & mechanical properties (Waterproofing, bond, etc) please refer to their technical data sheet. Using theses additives may extend the setting times slightly.

### Application

Apply the mixed materials during the open time onto the prepared substrates using gloved hand or trowel or pump (spray application). After filling and repair screed off excess.

Please, note that the mixing, placing and finishing shall be during the open time.

The applied materials can be finished using a float damp sponge to achieve the desired surface texture. The completed surfaces should not be overworked.



#### Curing

JAZEMONOTOP 500 is cement-based material, so it shall be cured properly after finishing the work. JAZECURE – AR is very good for this purpose. Please, refer to its data sheet.

#### Cleaning

All equipment & tools shall be cleaned with water after work immediately.

#### Packaging

JAZEMONOTOP 500 is supplied in well sealed 25-Kg packs.

#### Storage & Shelf-life

JAZEMONOTOP 500 shall be stored in normal conditions away from any extreme temperatures, or any source of moisture. 12-monthes if stored properly in well-closed containers.

#### Health & Safety

- JAZEMONOTOP 500 is non-toxic, non-hazardous during handling, storage and use, but dust mask and gloves are recommended.
- For Ecology: Do not dispose directly to water or soil, re-use it if possible or mix it with water, wait till hardening, then burry it in landfill.
- Splashes on skin will be washed with water and soap.

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#### **JCC CONSTRUCTION CHEMICALS**

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the content and suitability for the application they intend to use our products for.

JCC endeavors to ensure that any advice, recommendation, specification of information in accurate and correct manner.