

Mass Repair Mortar

Highly fluid microconcrete

DESCRIPTION

Mass Repair Mortar is a high strength, fluid microconcrete, specifically formulated for the repair of damaged concrete where a structural repair is required. The specially selected cements and shrinkage compensation additives contained in Mass Repair Mortar allows the placement of large volumes with negligible shrinkage.

ADVANTAGES

- Good flow retention
- High strength
- Easy application
- Low alkali content
- Durable

TYPICAL PROPERTIES

Set Times @ 20°C	
Initial	165 minutes
Final	270 minutes
Compressive Strength	
1 day	15 MPa
7 days	45 MPa
28 days	60 MPa

APPLICATION INSTRUCTIONS

Preparation

All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond. Any cracked or weakened concrete should be removed prior to being repaired to provide a solid foundation. Scabbling or water blasting should be used to remove laitance and provide a mechanical key.

Priming

The substrate should be presoaked with clean water prior to carrying out the repair. This operation can be used to check that the formwork is liquid tight. After soaking, all water should be drained from the formwork just prior to commencing the placement of the Mass Repair Mortar. Free water on the surface will reduce the bond and ultimate strength. Prime all steel reinforcing bars with Zinc Primer to inhibit further corrosion

Mixing

Mass Repair Mortar is suitable for mixing using a drill and suitable paddle, or pump where a large quantity is required. Use 2.6 - 2.7 litres of water per bag of Mass Repair Mortar to achieve a smooth consistency. Mix for 3 to 5 minutes to ensure thorough mixing. Excess water will reduce the final strength and make application of the product more difficult. Always add the powder to the water while mixing slowly to avoid lumps. Only mix that quantity of material that can be used within the setting time. Do not attempt to rework or retemper any partially set product.

Application

Place the mixed Mass Repair Mortar in the formwork by pouring or pumping in a single continuous operation to fill the repair. If a break is inevitable, it should not exceed 20 minutes before pumping is recommenced.

MARKETING SERVICES

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MASS REPAIR MORTAR

Application Cont'd

Pouring or pumping should place the material from the bottom up to avoid air entrapment. The provision of an entry port at the bottom of the formwork and airbleed holes will help facilitate placement. The minimum thickness applied in any application should be limited to 25mm. Feather edging should be avoided in patch repairs.

Curing

Immediately after the formwork has been removed apply a coat of Curecon PW or Curecon W as appropriate, to the areas repaired.

CLEAN UP

Clean all equipment with water immediately after use.

ESTIMATING

Packaging

Mass Repair Mortar is supplied in 20 kg bags.

Estimating Data

Fresh wet density	2270 kg/m ³
A 20 kg bag of Mass Repair Mortar will yield approximately 10 litres.	

STORAGE

Mass Repair Mortar is a cement based product which must be stored in a dry area off the ground.

PRECAUTIONS

Where temperatures less than 5°C or greater than 35°C are encountered, contact our Technical Staff for specific advice.

Mass Repair Mortar is non toxic, but it is alkaline in nature. Any contact with eyes or skin should be washed off with clean water. Protective gloves and clothing should be worn.

NOTE

Material safety data sheets for these and all Aftek products are available on request. Read the MSDS and product label carefully before using.

All reasonable care is taken in the compilation of this data sheet. All recommendations regarding use are made without guarantee as the conditions of use are beyond the control of the manufacturer.

ALLIED PRODUCTS

Aftek manufactures a broad range of construction products including.

Grouts

Coatings

Admixtures

Adhesives

Sealants

Floor Toppings

Floor Levelling Compounds

Concrete Repair