

Structural Repair Mortar

Cementitious repair mortar for concrete

DESCRIPTION

Structural Repair Mortar is a fine filled, high strength, cementitious mortar, specifically formulated for the repair of damaged concrete where a structural repair is required. The specially selected cements and polymers contained in Structural Repair Mortar allow the buildup of 25mm without slump, and exceptional adhesion to concrete and masonry materials with negligible shrinkage.

ADVANTAGES

- Good Adhesion
- High Strength
- Easy application
- Durable

Typical Properties

Set Times @ 20°C

Initial	165 minutes
Final	270 minutes

Compressive Strength

1 day	25 MPa
7 days	50 MPa
28 days	55 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

Priming with Rendergrip A is essential to ensure good adhesion and optimum build. Where the substrate is very porous predampening with water may be required to prevent rapid drying of the primer. Free water on the surface will reduce the bond and ultimate strength.

Prime all exposed steel reinforcing bars with Galvacoat or Zinc Primer to inhibit corrosion.

Mixing

Structural Repair Mortar is suitable for mixing using a drill and suitable paddle or by hand where only a small quantity is required. Use 2.0 - 2.4 litres of water per bag of Structural Repair Mortar to achieve a smooth, soft mortar consistency. Excess water will reduce the final strength and make application of the render 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

Apply the mixed Structural Repair Mortar to the substrate using a trowel to give the required finished thickness.

MARKETING SERVICES

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Application (cont)

The maximum thickness applied in any application should be limited to 25mm.

Feather edging should be avoided in patch repairs; the minimum application thickness of 5mm should not be exceeded.

Curing

The application of a thin coat of Rendergrip A as a curing membrane will reduce premature drying in repairs. Where repairs are subject to direct sun or strong winds the use of Waxcure is recommended.

CLEAN UP

Clean all equipment with water immediately after use.

Estimating

Packaging

Structural Repair Mortar is supplied in 20 kg bags. Rendergrip A is supplied in 5 and 20 litre containers.

Estimating Data

A 20 kg bag of Structural Repair Mortar will cover approximately 1.2 m² at an average thickness of 10mm.

Rendergrip A is used at 5 to 7 m² per litre. A scabbled surface will reduce the area covered by the primer and topping.

STORAGE

Structural 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.

Structural 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