

# High Build Mortar HK

Medium density repair mortar for  
concrete

## DESCRIPTION

High Build Mortar HK is a fine filled, medium density, cementitious mortar, specifically formulated for the repair of damaged concrete where high build is required. The specially selected cements and polymers contained in High Build Mortar HK allow the buildup of 40mm without slump and exceptional adhesion to concrete and masonry materials with negligible shrinkage.

## ADVANTAGES

- Good adhesion
- High build
- Easy application
- Durable

## TYPICAL PROPERTIES

Set times @ 20°C

Initial	185 minutes
Final	320 minutes

Compressive strength

1 day	12 MPa
7 days	26 MPa
28 days	36 MPa

Flexural Strength

6.5 MPa

Fire rating

Non combustible

Drying Shrinkage

7 days	<300 microstrain
28 days	<450 microstrain

## 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. Abrade all exposed steel back to white metal.

### Priming

#### Steel

Prime all freshly cleaned steel reinforcing with Zinc Primer to prevent the recurrence of corrosion.

#### Concrete

Predampen the concrete substrate prior to applying the Rendergrip B. A primer is essential to ensure good adhesion and optimum build. Maximum build is achieved while the primer is still tacky. NB: Free water on the surface will reduce the bond and ultimate strength.

### Mixing

High Build Mortar HK is suitable for mixing using a drill and suitable paddle or by continuous mixer where a large quantity is required.

### Water Addition

Use 2.2 - 2.4 litres of water per bag of High Build Mortar HK to achieve a smooth, soft mortar consistency.

## MARKETING SERVICES

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## HIGH BUILD MORTAR HK

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 High Build Mortar HK to the substrate using a trowel or gloved hand to give the required finished thickness. Ensure proper compaction around reinforcing bars. The maximum thickness applied in any application should be limited to 40mm. Feather edging must be avoided be used in patch repairs. A minimum thickness of 10mm should be maintained by saw cutting the edge of repairs. Where the depth of repair is greater than 40mm, the repair mortar may be built up in layers within 24 hours between applications. Spray application will allow greater thicknesses to be achieved. Consult our technical staff for specific advice on the most suitable means of carrying out large scale repairs.

### Curing

The application of a curing membrane will reduce premature drying in repairs. Where repairs are subject to direct sun or strong winds the use of Curecon WB is recommended.

### CLEAN UP

Clean all equipment with water immediately after use.

### ESTIMATING

High Build Mortar HK is supplied in 20 kg bags. Rendergrip B is supplied in 5 and 20 litre containers.

### Estimating Data

A 20 kg bag of High Build Mortar HK will cover

approximately 1.3 m<sup>2</sup> at an average thickness of 10mm. Rendergrip B is used at 5 to 7 m<sup>2</sup> per litre. A scabbled surface will reduce the area covered by the primer and topping.

### STORAGE

High Build Mortar HK is a cement based product which must stored in a dry area.

### PRECAUTIONS

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

High Build Mortar HK 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 Afttek 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

Afttek manufactures a broad range of construction products including.

Grouts

Coatings

Admixtures

Adhesives

Sealants

Floor Toppings

Floor Levelling Compounds

Concrete Repair

Concrete Treatment

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