

# PENAPATCH HIGH BUILD REPAIR MORTAR

## CEMENTITIOUS REPAIR MORTAR FOR VERTICAL OR OVERHEAD REPAIRS

### DESCRIPTION

Penapatch HB Repair Mortar is a fine filled, light weight, cementitious mortar, specifically formulated for the repair of damaged concrete where a high build is required. The specially selected cements and polymers contained in HB Repair Mortar allow the buildup of 70mm without slump and exceptional adhesion to concrete and masonry materials with negligible shrinkage.

### ADVANTAGES

- High Build – up to 70mm
- Fast setting
- Durable
- Excellent adhesion
- Low permeability

### TYPICAL PROPERTIES

#### Set times @ 20° C

Initial Set	105 minutes
Final Set	270 minutes

#### Compressive strength

1 day	7 MPa
7 days	15 MPa
28 days	27 MPa
Minimum application depth	12 mm
Maximum build	70 mm

### 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.

Concrete should be broken out to expose all rust affected reinforcement. Exposed steel reinforcement must be sound and free of rust or scale. Damaged sections of reinforcing bars should be removed and replaced with new material.

### APPLICATION INSTRUCTIONS (cont.)

Avoid feather edging. Carefully delineate all edges of the section to be repaired. Break concrete out if necessary, to ensure a minimum depth of 12mm is achieved.

#### Priming

Priming all contacted masonry surfaces with Rendergrip B is essential to ensure good adhesion and optimum build. Maximum build is achieved while the primer is still tacky. Where the substrate is very porous pre-dampening with water may be required. Free water on the surface will reduce the bond and ultimate strength.

Prime all exposed steel with Zinc Primer for further protection.

#### Mixing

HB Repair Mortar is suitable for mixing using a drill and suitable paddle, or by hand where only a small quantity is required.

Use 3.0 - 3.2 litres of water per bag of HB 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 re-temper any partially set product.

#### Application

Apply the mixed HB Repair Mortar 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 70mm.

Feather edging must be avoided be used in patch repairs.

A minimum thickness of 12mm should be maintained by saw cutting the edge of repairs. Where the depth of repair is greater than 70mm, the repair mortar may be built up in layers with 24 hours between applications.

Consult our technical staff for specific advice on the most suitable means of carrying out large scale repairs.

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### Curing

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

### CLEAN UP

Clean all equipment with water immediately after use.

### ESTIMATING

#### Packaging

HB Repair Mortar is supplied in 18 kg bags.

Rendergrip B is supplied in 1, 5 and 20 litre containers.

#### Material usage

An 18 kg bag of HB Repair Mortar will cover approximately 1.4 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 repair mortar.

### PRECAUTIONS

Aftek High Build Repair Mortar is not intended for load bearing applications or for use in trafficked situations. ITLS manufactures other products suited for these applications.

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

### STORAGE

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

High Build Repair Mortar should be used within 12 months of manufacture.

### HEALTH AND SAFETY

HB 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 during mixing and application.

For more detailed information, please read the MSDS for this product.

### TECHNICAL SUPPORT

AFTEK manufactures a comprehensive range of high quality, high performance construction products. In addition, offers technical support and on-site advice to specifiers, end users and contractors.

Please contact your sales representative or Head Office for this service

### ALLIED PRODUCTS

RLA manufactures a broad range of products under the Aftek brand, which are used in the construction industry and in manufacturing, including:

- Grouts
- Coatings
- Admixtures
- Adhesives
- Sealants
- Floor Toppings
- Floor Leveling Compounds
- Concrete Repair
- Concrete Curing



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