



THE FENDER BCS GROUP OF COMPANIES

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SUPA-MORTAR HB

LIGHTWEIGHT HIGH-BUILD REPAIR MORTAR

Supa-Mortar HB is a pre-blended, shrinkage compensated, low density, fibre reinforced repair mortar for high-build applications.

USES: **Supa-Mortar HB** is intended for concrete repairs in vertical and overhead applications where conventional high density mortars might slump.

FEATURES AND BENEFITS:

Single component, easy to use.

Low density allows single application of up to 80mm (vertical), 60mm (overhead), greater thicknesses might be achieved in small patches.

Can be applied by trowel, float or hand, also by wet spray method.

High build reduces need for formwork.

Fibre reinforced, crack resistant.

Excellent bond to prepared & primed concrete substrate.

Fast curing.

Shrinkage compensated.

Contains polymers to enhance resistance to water, chlorides, CO₂.

TECHNICAL DATA:

All tests carried out at 20°C

Initial set		2 Hours
Final set		3 Hours
Compressive strength (N/mm ²)	20	1 Day
	28	5 Days
Flexural strength (N/mm ²)	2.0	28 Days
Yield (/25kg)	22.6 litres	
Yield (/tonne)	0.904m ³	
Fresh Wet Density	1360kg/m ³	

(For estimating purposes allow 1.1kg **Supa-Mortar HB** per m²/mm thickness).

Our expertise is fitting all the pieces together

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SUBSTRATE PREPARATION

Surfaces should be clean and free from contamination such as laitance, dust, oil, grease etc. Mechanically remove any loose, weak and friable concrete to ensure a sound substrate. Around reinforcement break out to minimum of 15mm behind rebar and 50mm beyond any rebar corrosion. Exposed steelwork should be cleaned to bright steel finish. Saw cut edges to a minimum 10mm depth and roughen cut edges to maximise primer key. **Supa-Mortar HB** must not be feather-edged.

PRIMING

Prime rebar with a suitable primer, allow the primer to set. The concrete contact surface should be thoroughly soaked with clean water until saturated, but free of standing water. Very porous concrete should be primed 24 hours before applying **Supa-Mortar HB**. Scrub a suitable primer into the substrate ensuring a fully keyed bond coat and apply the mortar “wet on wet”, where more than one layer is to be applied, reapply primer before applying subsequent mortar layers.

MIXING

Mix whole bags only, with 4.5lt clean water per bag. For optimum results use a forced-action shear mixer, the mortar can also be mixed using a slow-speed drill and paddle, **Supa-Mortar HB** should not be mixed by hand. Add the powder gradually to the water and mix until a uniform, “good to wet” mortar consistency is achieved.

APPLICATION & CURING

Apply the mortar to the prepared surface within the primer setting time, working the layers well in. **Supa-Mortar HB** should not be applied in layers less than 10mm thick. Do not apply **Supa-Mortar HB** if ambient or substrate temperature is below 5°C. Cure in accordance with good practise, curing agents should not used if subsequent layers of mortar, or coatings are to be applied.

CLEANING

Equipment should be cleaned as soon after application as practicable with clean water. Surplus mortar should be swept away and disposed of in accordance with local and national regulations.

STORAGE AND SHELF LIFE

When stored correctly, in original unopened bags in cool (not below 5°C), dry conditions **Supa-Mortar HB** has a minimum shelf life of 9 months.

PACK SIZE AND COVERAGE

Supa-Mortar HB is supplied in nominal 25kg packs, nominal yield 22.6lt.

QUALITY CONTROL

Supa-Mortar HB is factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001 Series.

FIRST AID MEASURES (See also Material Safety Data Sheet).

Eye contact: Irrigate immediately with clean water or an eye wash solution for at least 15 minutes.

Skin contact: Wash immediately with clean water followed by soap and water.

Inhalation: Treat symptomatically.

Ingestion: Give water or milk to drink. Do not induce vomiting, treat symptomatically.