

HB MORTAR

TECHNICAL INFORMATION

Description

HB Mortar is formulated from a solvent free Epoxy Resin system, together with specially selected lightweight fillers.

The mixed mortar has excellent application characteristics, allowing overhead and vertical repairs to be easily accomplished.

HB Mortar is used in conjunction with a separate primer, such as Tackprimer.

The product is supplied as a three pack material, pre-weighed to allow easy on site mixing and use.

HB Mortar provides a strong, durable, weatherproof repair for concrete, brickwork, stonework and steel substrates.

Typical Uses

Repairs to spalled concrete structures, particularly for vertical and overhead applications.

Cosmetic refurbishment of old stone and brickwork. (Colour matches possible.)

Advantages

- W** Excellent adhesion to substrate
- W** Very good abrasion and impact resistance
- W** High build application in vertical and overhead locations
- W** May be applied to damp substrates
- W** Impermeable and waterproof
- W** Chemically resistant
- W** Ease of mixing and application
- W** Good mechanical properties
- W** Increases effective concrete cover

Typical Properties

Colour: Light Grey (Other colours to order)

Density: 1175 Kg/cu m

Pot life: 50 mins @ 20°C

Curing: Hard dry 12 hours @ 20°C

Full cure 7 days @ 20°C

Application temperature range: 3°C to 30°C

Compressive strength: 45 N/sq m

Flexural Strength: 16 N/sq m

Tensile strength: 8 N/sq m

Chemical resistance: excellent resistance to immersion in 25% hydrochloric acid, 40% sodium hydroxide, diesel, petrol, 10% citric acid.

very good resistance to 10% lactic acid, 20% phosphoric acid, 20% sulphuric acid.

Paco systems

Broadridge Close

Newton Abbot

Devon TQ12 1YE

Tel: 01626 207064

Fax: 08712 424345

www.paco-systems.co.uk

info@paco-systems.co.uk

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PROCEDURE

1) Surface Preparation

The substrate shall be sound, clean and free from laitance, dust, grease, oil and other contaminants. Smooth substrates should be roughened by mechanical means to form a 'key' in order to optimise adhesion.

Scabbling, grit blasting, high pressure water jetting or needle gunning are satisfactory forms of preparation.

Any corroded reinforcing steel shall be abraded or grit blasted to remove all scale, rust etc.

2) Priming

Mix and apply a coat of Tackprimer in accordance with the product data sheet.

3) Mixing.

Mix the Bas and the Curing Agent together thoroughly and then incorporate the Aggregate component under constant agitation. A forced mixer, such as the Cretangle, Mixall or Pennine types is recommended.

Mixing should be continued for 2-3 minutes until a uniform mortar consistency has been achieved.

4) Application

Whilst the Tackprimer remains in a "tacky" condition i.e. within 90 minutes of application, apply the HB Mortar by wood float, ensuring good compaction, and then close and finish with a steel float.

Where a roughened profile is required, finish with a plastic float.

HB Mortar may also be placed by gloved hand for large operations or comparatively inaccessible applications.

Chequer board application is recommended for larger areas of rendering.

Application thickness of up to 50mm per layer can be achieved.

If additional layers are required, scratch finish the first layer and then re-prime the following day prior to subsequent applications.

5) Equipment Cleaning Clean all equipment, immediately after use, with Toolclean.

6) Curing

HB Mortar will have cured sufficiently after 24 hours @ 20°C to be put back into most kinds of service.

7 days cure @ 20°C will be required to ensure optimum mechanical properties and full chemical resistance.

7) Packaging 5 & 10Kg packs

8) Coverage

A 5 Kg pack yields 4.25 litres of mortar sufficient to for 0.42 sq m at 10mm thick.

9) Storage and shelf Life

Store in dry conditions at temperatures between 10°C and 25°C and out of direct sunlight. HB Mortar has a minimum shelf life of 12 months when stored in original unopened containers in accordance with the manufacturer's instructions.

10) Limitations

Do not apply to wet or uncured concrete surfaces.
Do not apply at temperatures below 3°C.

11) Health and Safety

Wear appropriate protective clothing and equipment.
Avoid contact with skin and eyes.

Please refer to Material Safety Data sheet for additional information.

HB Mortar shall be applied strictly in accordance with the instructions of the manufacturer.
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