

Description

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

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

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

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

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

Typical Uses

Repairs to spalled or damaged concrete structures; particularly for vertical and overhead applications. Cosmetic refurbishment of old stone and brickwork (colour matches possible).

Advantages

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

Typical Properties

Colour: Light grey (other colours available upon request)

Density: 1175kg/m³

Pot Life: 50minutes @ 20°C

Compressive Strength: 45 MPa

Tensile Strength: 8 MPa

Chemical resistance: **Excellent resistance** to 25% hydrochloric acid, 20% sulphuric acid, 10% citric acid, 40% sodium hydroxide, diesel and petrol. **Very good resistance** to 10% lactic acid, 20% phosphoric acid, **Good resistance** to many common industrial chemicals

Packaging

Resbuild HB Mortar is supplied in 5kg & 10kg packs

Procedure

Surface Preparation

The substrate shall be sound, clean and free from laitance, dust, oil, grease 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 re-enforcing steel shall be abraded or grit blasted to remove all scale, rust, etc.

If application of the Resbuild HB Mortar is to be delayed then a coat of Resbuild Steelprime should be applied as an anti-corrosive holding primer for prepared steelwork. Please consult our Technical Department for specific advice.

Priming

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

Mixing

Pour the contents of the Curing Agent container into the Base container and mix thoroughly by spatula or low speed drill/stirrer. The mixed resins shall be poured into a forced action mixing vessel, (Creteangle bucket or similar), and the Filler added steadily whilst the mixer is in motion. Mix for 2-3 minutes until a uniform material is achieved.

Application

Whilst the Resbuild Tackprimer remains in a 'tacky' condition, i.e. within 90 minutes of application, apply the Resbuild 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.

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

Equipment Cleaning

Clean equipment with Resbuild Toolclean prior to curing of the mortar.

Curing

Resbuild 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.

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Storage and Shelf Life

Store in dry conditions at temperatures between 10°C and 25°C. Avoid low temperature storage prior to use of the material. Do not expose to freezing conditions.

Resbuild HB Mortar has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Coverage

A 5kg pack yields 4.25litres of mortar, sufficient for 0.42m² @ 10mm thick.
(10kg pack pro rata.)

Limitations

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

Health and Safety

Wear gloves and goggles.
Wash off splashes immediately with soap and water.
Any eye contamination must be rapidly irrigated with copious amounts of water, and immediate medical attention sought.
Please refer to Material Safety Data Sheet for additional information.

Resbuild HB Mortar shall be applied strictly in accordance with the manufacturer's instructions.

For specific advice regarding any aspect of this product, please consult our Technical section.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Resin Building Products Limited current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard terms and conditions of sale (available upon request).