

***Lightweight Epoxy Repair Mortar  
High Build Mortar for Vertical Repairs***

Resbuild HB Mortar is 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.

**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 Uses**

- Repairs to spalled or damaged concrete; structures; particularly for vertical and overhead applications.
- Cosmetic refurbishment of old stone and brickwork.

**Technical Information**

Specific gravity	1.175
Pot life 20°C	40 Minutes
Touch dry 20°C	12 Hours
Hard dry 20°C	18 Hours
Compressive strength	30MPa
Tensile strength	8MPa
Adhesion to concrete	4 MPa (Concrete Failure)
Colour	Grey (Other colours available)

	
Resin Building Products Ltd Resbuild House, Unit 4, Durham Lane, Doncaster, DN3 3FE	
CPR-RBP-007-001 EN1504-3 Structural and non-structural repair 3.1, 7.1 & 7.2	
Compressive Strength	≥25MPa
Chloride Ion Content	≤0.05%
Adhesion Strength by Pull-off Test	>2MPa
Thermal Compatibility; Freeze Thaw	≥0.08MPa
Carbonation Resistance	Dk ≤ control concrete
Capillary Absorption (water permeability)	< 0.5kg/(m <sup>2</sup> .h <sup>0.5</sup> )
Durability	Pass
Stiffening Time	Declared Value
Workability	Declared Value

**Packaging**

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

**Coverage**

A 5kg pack yields 4.25litres of mortar, sufficient for 0.42m<sup>2</sup> @ 10mm thick.  
(10kg pack pro rata.)

Resbuild House, Unit 4 Durham Lane, Armthorpe, Doncaster, DN3 3FE

Tel. +44 (0) 1302 300822

[sales@resbuild.co.uk](mailto:sales@resbuild.co.uk) ■ [www.resbuild.co.uk](http://www.resbuild.co.uk)

ESTABLISHED

**1995**

### **Application Conditions**

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

### **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. Ensure the primer is tacky prior to application of the mortar.

### **Mixing**

Resbuild HB Mortar is supplied as a three-component pack. Each component is pre-weighed and ready to mix. Pour the contents of the CURING AGENT container into the BASE container and mix thoroughly by mechanical means. The mixed resins shall be poured into a suitable mixing vessel and the AGGREGATE added steadily whilst the mixer is in motion. Mix for 2-3 minutes until a uniform consistency is achieved.

### **Application**

Whilst the Resbuild Tackprimer remains in a 'tacky' condition, i.e. within 90 minutes of application, apply the Resbuild HB Mortar, 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 comparatively inaccessible applications. Temporary support or shuttering may be required for large, unsupported or overhead applications. Application thicknesses 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.

### **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.

### **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 Department.