

## *Fast Curing Epoxy Repair Mortar* *Self-priming, two component Epoxy mortar*

Resbuild Fastpatch is a high strength, trowel applied, two component Epoxy resin mortar, designed for rapid and permanent repairs to concrete and masonry surfaces.

### Advantages


- Pre-packed units – ready to use
- Fast curing characteristics
- Impact and abrasion resistant
- Frost resistant and impervious to water
- Excellent mechanical properties
- Unaffected by a wide range of acids, and industrial chemicals
- Negligible shrinkage
- High bond strength – no primer required
- Cures under damp, cool conditions

### Typical Uses

- Repairs to spalled or damaged concrete; chemical bunds; bedding pre-cast concrete beams; nosings on expansion joints; floor repairs. Filling voids and joints where little or no movement is anticipated.
- General repairs to cementitious substrates where strength and chemical resistant properties are essential.

### Technical Information

Specific gravity	2.0
Pot life 20°C	40 Minutes
Touch dry 20°C	4 Hours
Hard dry 20°C	6 Hours
Shore D hardness	75
Compressive strength	76MPa
Tensile strength	13MPa
Adhesion to concrete	4 MPa (Concrete Failure)
Taber Abrasion Resistance	40mg weight loss (CS17 wheels; 1kg loads, 1000 cycles)
Colour	Grey (Other colours available)

	
Resin Building Products Ltd Resbuild House, Unit 4, Durham Lane, Doncaster, DN3 3FE	
CPR-RBP-005-005 EN1504-3 Structural and non-structural repair 3.1, 7.1 & 7.2	
Compressive Strength	≥45MPa
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

### Chemical Resistance

- Excellent resistance to 20% hydrochloric acid, 20% sulphuric acid, 10% citric acid, 25% sodium hydroxide, diesel, and petrol.
- Very good resistance to 10% lactic acid, 50% phosphoric acid, 10% nitric acid and 5% acetic acid.
- Good resistance to many common industrial chemicals.

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### **Application Conditions**

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

### **Surface Preparation**

Remove all laitance, spalled concrete, grease, oil, dust, and other contaminants by scabbling or bush hammering, to provide a sound, clean, substrate. Any exposed reinforcing steel shall be fully exposed by cutting out around its full circumference, and cleaned by abrading or grit blasting to remove rust, scale, etc.

### **Priming**

Primer not normally required. For exceptionally porous surfaces, please contact our Technical Department for specific advice.

### **Mixing**

Resbuild Fastpatch is supplied as a two-component pack. Each component is pre-weighed and ready to mix. The contents of the CURING AGENT should be added into that containing the BASE and the two components thoroughly mixed, by spatula or low speed drill/stirrer.

### **Application**

Apply the Resbuild Fastpatch by tamping and trowelling to ensure good compaction and a tight finish. The material should not be feather edged. Maximum thickness in horizontal applications is 50mm. For vertical applications the material may be built up in layers not exceeding 6mm.  
(See also Resbuild HB Mortar data sheet).

### **Curing and Overcoating**

Resbuild Fastpatch will have hardened sufficiently after 6 hours cure @ 20°C to allow full trafficking. Longer periods of cure will be necessary at lower temperatures. Full mechanical and chemical resistant properties will be achieved after 3 days cure @ 20°C. It is preferable to apply a sealer coat if exposure to chemicals is likely. Please contact our Technical Department for specific recommendations.

### **Equipment Cleaning**

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

### **Packaging**

Resbuild Fastpatch is supplied in 5kg and 10kg packs.

### **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 Fastpatch has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

### **Coverage**

A 5kg pack of Resbuild Fastpatch yields 2.5 litres of material, sufficient for 0.5m<sup>2</sup> @ 5mm thickness.  
(10kg pack pro-rata).

### **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 Fastpatch 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.