

Description

Resbuild Polyester Mortar is a versatile, rapid curing, high strength, two pack mortar suitable for many applications in building and civil engineering. The product consists of a low viscosity unsaturated polyester resin BASE component, and a FILLER component consisting of graded minerals and catalyst. Resbuild Polyester Mortar has a non-critical mix ratio, which allows the consistency to be varied from pourable to trowellable without adversely affecting curing times or strength.

Typical Uses

For rapid repairs, bedding, jointing and profiling of concrete, masonry and brickwork.
Repair of in-situ and pre-cast concrete.
As an adhesive for bedding and fixing kerbs, brick slips, manhole sets, concrete slabs, etc.

Advantages

- Fast curing even at low temperatures
- High strength development
- Easy and simple to use
- Non-critical mix ratio
- Excellent adhesion to concrete and masonry surfaces
- Negligible shrinkage
- Very good chemical resistance

Typical Properties

Colour: Light grey
Density: 1.82kgdm³
Pot life @ 20°C: 15-25 Minutes
Compressive strength @ 20°C: 90 MPa at 3 hours,
100 MPa at 7 days
Tensile Strength @ 20°C: 18 MPa at 7 days
Flexural Strength @ 20°C: 32 MPa at 7 days
Adhesion to concrete: >4.1MPa(concrete failure)
Temperature range during application: 0°C to + 30°C
Temperature range during service: -10°C to + 60°C
Chemical resistance: Excellent resistance to water, dilute acids and alkalis, oil, petrol, and many inorganic salts.
For specific advice please consult our Technical Department.

Packaging

Resbuild Polyester Mortar is supplied in 6 and 12kg packs.

Procedure

Surface Preparation

Remove all laitance, spalled concrete, grease, oil, dust, and other contaminants by mechanical means e.g. scabbling or needle gunning, to provide a sound, clean substrate. Any exposed reinforcing steel shall be fully exposed by cutting out around its full circumference, and cleaned by hand abrading or wire brushing to remove rust, scale, etc.

Priming

In the case of very dense or non-absorbent substrates, prime the surface with a wet mix of Base and Filler (in a 1:1 volume mix). Ensure that all exposed reinforcing steel is primed.

Mixing

Pour the required quantity of resin, (Base component), into a clean plastic bucket, and slowly add the Filler component whilst stirring.
Add sufficient Filler to achieve the desired consistency. Do not mix more material than can be used within the stated pot life.

Application

The mixed material may be applied by pouring or trowelling, depending upon the consistency selected. The maximum thickness in one application is 15mm. Thicker sections may be built up in layers, having firstly roughened the surface between layers to provide a mechanical “key”.

Equipment Cleaning

Clean equipment with Resbuild Toolclean immediately after use.

Curing and Overcoating

Resbuild Polyester Mortar will have hardened sufficiently after 1 hour at 20°C or 2 hours at 10°C, to allow full trafficking or overcoating. Full mechanical and chemical resistant properties will be achieved after 7 days @ 20°C.

Storage and Shelf Life

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C. Resbuild Polyester Mortar has a minimum shelf life of 6 months when stored in original, unopened containers in accordance with manufacturer’s instructions.

Coverage

A 6kg pack yields 3.30 litres of mortar, sufficient for 0.66m² @ 5mm thickness.
12kg pack pro-rata.

Limitations

Do not apply to wet, or uncured concrete surfaces.
Do not apply at temperatures below 0°C.

Health and Safety

Avoid contact of the material with skin and eyes.
Wear gloves and goggles.
Wash off splashes immediately with soap and water.
Any eye contamination must be rapidly irrigated with copious amounts of clean water, and immediate medical attention sought.

Please refer to Material Safety Data Sheet for additional information

Resbuild Polyester 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.

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).