

Description

Resbuild MP Resin HTE is a multi-purpose, 2 component, solvent free Epoxy resin which may be used on site to blend primers, screeds, repair mortars and sealers for concrete or steel substrates in areas where high service temperatures are expected.

Typical Uses

As a primer for concrete.

As an adhesive for bonding new to old concrete e.g. resin bonding new floor toppings to old concrete.

As a protective treatment to exposed steel reinforcement during concrete repair.

As a binder for onsite blending with graded Quartz or Silica Sand to produce mortars, screeds or coving mixes.

As a sealer.

Advantages

- Solvent free, low odour
- Excellent adhesion to concrete and steel
- Impervious to water
- Easily applied
- Versatile
- Very good chemical resistance
- 3.5:1 volume mix (Base/Curing Agent)
- Excellent heat resistance.

Typical Properties

Pot life @ 20°C: 40 Minutes

Colour: Pale amber liquid of low odour

Adhesion to concrete: 3.8MPa (concrete failure)

Heat distortion temperature: 100°C

Typical compressive strength: 60MPa
(as a binder in a quartz filled system)

Packaging

Resbuild MP Resin HTE is supplied in 50kg packs consisting of 2 units of Base and 1 unit of Curing Agent.

Procedure**Surface Preparation**

- a. Concrete surfaces shall be a minimum of 21 days old and/or the residual moisture content shall be below 6%. Ensure that the concrete is clean and free from dust, laitance, grease, oil, curing compound, and existing paint finishes etc. Suitable mechanical treatment such as vacuum grit blasting or mechanical scabbling is recommended to ensure the removal of contaminants and to provide a mechanical 'key'.
- b. Steel reinforcement shall be abraded, wire-brushed etc. to remove all traces of rust. Priming should immediately follow preparation to obviate the possibility of flash rusting.

Mixing

Pour 1 volume of the CURING AGENT and 3.5 volumes of BASE into a mixing vessel and thoroughly mix, preferably by mechanical means until a uniform colour is achieved.

Where a mortar or screed is required, incorporate an appropriate graded aggregate. (Please contact our Technical Department for recommendations).

Application

- a. As a primer: apply by brush or roller at a nominal rate of 0.25 to 0.40kg/m². Ensure that the surface is thoroughly wetted out.
- b. As a mortar or screed: place the mix onto the primed surface, compact and rule to level and finish with a steel float.
- c. As a sealer: allow the screed or mortar to cure overnight. Spread the sealing coat using a double-edged squeegee and back roller using a short pile lambswool roller to remove excess. Apply at a nominal rate of 0.25 - 0.3kg/m². Additional coats may be necessary, depending upon the porosity of the substrate.

Note: Sealing is not always required, but preferable in hygienic environments such as food factories, pharmaceutical plants, etc.

An appropriate slip resistant additive may be incorporated, if required.

Equipment Cleaning

Clean equipment with Resbuild Toolclean immediately after use.

Curing

Minimum curing temperature: 16C
Allow to cure for a minimum 24 hours at ambient temperatures.
For best results the material should then be post-cured at temperatures around 50 - 60C for a minimum of 4 hours, prior to full service.
Full cure will be achieved at 7 days @ 20C.

Storage and Shelf Life

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C.
Do not expose to freezing conditions.
Resbuild MP Resin HTE has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Coverage

- a. As a primer: 2.5 - 4.0m²/kg depending on surface texture.
- b. As a screed: typical ratio is 7.0:1 w/w Aggregate / Mixed Resin
- c. As a mortar: typical ratio is 5.5:1 w/w Aggregate / Mixed Resin

Please refer to our Technical Section for advice as to Aggregate composition.

Limitations

Do not apply to wet or uncured concrete surfaces.
Do not apply at temperatures below 16C.

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 MP Resin HTE 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).