

Description

Resbuild EPA is a thixotropic, solvent free Epoxy adhesive ideal for bonding a wide range of building materials to one another e.g. concrete, brick, metal, stone and wood.

Resbuild EPA has a high level of mechanical integrity and exhibits excellent bonding characteristics even under damp conditions.

Resbuild EPA is easy to mix and apply and requires no primer.

Typical Uses

Resbuild EPA is a versatile Epoxy paste adhesive being particularly suitable for all general purpose bonding operations.

Resbuild EPA may also be used for thin section concrete repairs.

Advantages

- a) Colour coded components to ensure correct mixing
- b) Excellent adhesion to most building materials
- c) Bonds to damp substrates
- d) Low odour
- e) Thixotropic nature facilitates application in both vertical and overhead locations
- f) Very good chemical properties and cohesive strength
- g) Resistant to water, weathering and a wide range of chemicals
- h) No primer required
- i) Creep resistant

Typical Properties

Pot life @ 20C: 50 Minutes

Colour: Light Grey

Specific Gravity: 1.5g/cm³

Compressive Strength: 40MPa (1 day @ 20°C)
75MPa (7 days @ 20°C)

Tensile Strength: 18MPa

Moisture resistance: <0.4% increase @ 28 days
(BS 6319: part 8)

Lap Shear Strength to grit blasted steel: 14MPa²

Shrinkage on curing: Negligible

Hold up: >15mm

Application temperature range: 3°C-30°C

Packaging

Resbuild EPA is supplied in 1kg, 2kg and 5kg packs

Procedure

Surface Preparation

- Concrete substrates shall be sound, clean and free from dust, dirt, grease, oils, laitance and other contaminants. A roughened or profiled surface will ensure optimum adhesion.
- Mild steel and other metallic substrates shall be degreased, power wire brushed or grit blasted and vacuumed free from dust.
- Other substrates shall be sound, clean and free from dust, dirt, grease, oil and any oxidised surface layer.

Mixing

The Base and Curing Agent components shall be thoroughly mixed together using a stiff spatula or a slow speed drill with paddle attachment until a uniform grey mixture has been produced.

Application

The application of Resbuild EPA is best achieved using a spatula, trowel, serrated trowel or stiff bristled brush depending on the area to be treated.

Bonding Surfaces Together

Resbuild EPA shall be applied to each of the two surfaces to be bonded. The surfaces are then pushed together to achieve the required bond thickness. Excess adhesive should be removed and the joint protected from movement until the resin has set.

Patch Repairs

Scrape or 'knife in' the Resbuild EPA and finish with trowel, palette knife or spatula.

Note: For more inaccessible areas, Resbuild EPA may be placed into empty cartridges and injected/'gunned' into place using a standard sealant gun.

Equipment Cleaning

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

Curing

Resbuild EPA will be hard dry following 10-12 hours cure @ 20°C. At higher temperatures this period will be reduced and at lower temperatures this period will be increased.

Allow 7 days for optimum mechanical properties and full chemical resistance.

Storage and Shelf Life

Store in dry conditions at temperatures between 10°C and 25°C.
Protect from frost.

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

Coverage

Dependent on application

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
Please refer to Material Safety Data Sheet for additional information

Resbuild EPA 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).