

Description

rbs Structural Adhesive is a thixotropic, solvent free epoxy bedding mortar ideal for bonding a wide range of building materials to one another e.g. concrete, brick, metal, stone, dense rubber, PTFE (thermoplastic) and wood.

rbs Structural Adhesive has a high level of mechanical integrity and exhibits excellent bonding characteristics even under damp conditions. rbs Structural Adhesive is easy to mix with colour coded components and requires no primer.

Complies with EN 1504-4:2004 Repair Method 4.4 Bonded Mortar or Concrete.

Advantages

- Colour coded components to ensure correct mixing.
- Excellent adhesion to most building materials.
- Bonds to damp substrates.
- Low odour.
- Highly thixotropic nature facilitates application in both vertical and overhead locations.
- Very good chemical properties and cohesive strength.
- Resistant to water, weathering, and a wide range of chemicals.
- No primer required.
- Creep resistant.

Uses

- rbs Structural Adhesive is a versatile thixotropic mortar being particularly suitable for bedding tiles and fixing slip bricks to concrete.
- rbs Structural Adhesive may also be used for thin section concrete repairs and bolt fixing in walls or overhead.
- Adhesive for bonding rubber and steel bearing pads for highways and railways

Directions For Use

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

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 Component and Curing Agent Component 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 rbs Structural Adhesive is best achieved using a spatula, trowel or serrated trowel depending on the area to be treated. Each pack yields 3L of paste adhesive.

Bonding Surfaces Together

rbs Structural Adhesive should 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 rbs Structural Adhesive and finish with trowel, palette knife or spatula. This product can be sanded to profile to improve appearance

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

Equipment cleaning - Clean equipment with a proprietary cleaner prior to curing of the mortar.

Curing - rbs Structural Adhesive 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.

Technical Data

Pot Life @ 20°C	40-50 minutes
Colour	Light grey
Specific Gravity	1.65
Touch Dry at 20°C	8 Hours
Hard Dry at 20°C	12 Hours
Compressive Strength	75MPa
Tensile Strength	18MPa
Shore D Hardness	80
Adhesion to Concrete	4MPa (Concrete Failure)
Shrinkage on Cure	Negligible
Hold Up	>15mm

Coverage

Dependent on application. A 5kg pack yields 3L of paste adhesive, 1m² at 3mm thick.

Packaging

rbs Structural Adhesive is supplied in 5kg/3ltr containers.

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.

Storage

Store in dry conditions at temperatures between 10°C and 25°C. Protect from frost. rbs Structural Adhesive has a minimum of 12 months shelf life when stored in original, unopened containers in accordance with manufacturer's instructions.

Health & Safety

When working with rbs Structural Adhesive suitable protective clothing, eye/face protection and gloves should be worn. Wash off splashes immediately with soap and water.

For further health and safety information, please refer to the relevant Safety Data Sheet.

	
Resapol Ltd Unit D4, Moss Industrial Estate, Walter Leigh Way, Leigh, Lancashire, WN7 3PT	
DOP No. CPR-RBP-012-001	
EN 1504-4 Repair Method 4.4	
Modulus of Elasticity in Compression	>6000 N/mm ²
Compressive Strength	>70 N/mm ²
Shear Strength	>12 N/mm ²
Workable Life	50 Minutes @ 20°C 100 Minutes @ 10°C
Glass Transition Temperature	≥40°C
Coefficient of Thermal Expansion	≤50 x 10 ⁻⁶ per °C
Total Shrinkage	≤0.1%
Bond Strength to Wet Concrete	>3 N/mm ² (Concrete Failure)
Bond Strength to Concrete	>3 N/mm ² (Concrete Failure)
Suitability for application to vertical surfaces	Pass
Durability (Thermal and Moisture)	Pass

Important Note

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company.

It is the responsibility of the customer to satisfy themselves that each product is fit for the purpose for which they intend to use it. Ensure that the actual conditions of use are suitable, and that in the light of our continual research and development programme, the information relating to each product has not been superseded.

The information given on this sheet is, to the best of our knowledge, true and accurate. No guarantee of the results implied, or any loss or damage arising out of this material, however, are possible as the conditions of application are beyond our control. This is not withstanding any liability arising from the Consumer Protection Act 1987 and the Health & Safety at Work Act. Health and Safety data is available on this product and should be referred to prior to its use

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Giving back **with every pack**

For more information on the Resapol Foundation, please visit our website at www.resapol.com.