

Description

rbs Epoxy Mortar LW is a three component pack which when mixed produces a solvent free epoxy mortar with low slump characteristics making it suitable for the repair of concrete on vertical and overhead applications. It provides excellent resistance to impact and abrasion in chemically aggressive environments.

Complies with EN 1504-3: 2005 Structural and non-structural repair methods 3.1, 7.1 & 7.2.

Uses

- Repairs to precast units.
- Repairs to spalled or damaged concrete on vertical/overhead applications.
- Repairs to bund areas where chemical resistance is required.
- Repairs to mullions, soffits.
- Cosmetic refurbishment of old stone and brickwork.

Advantages

- Excellent adhesion to substrate.
- Very good impact and abrasion resistance.
- High build application in vertical and overhead locations.
- Suitable for application to damp surfaces.
- Impermeable and waterproof.
- Chemically resistant.
- Good mechanical properties.
- Increases effective concrete cover.
- Colour matches possible

Directions For Use

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

Substrate preparation – The substrate shall be sound, clean, and free from laitance, dust, oil, grease and other contaminants. Smooth substrates should be roughened by mechanical means to form a 'key' in order to optimise adhesion. Scabbling, grit blasting, high pressure water jetting or needle gunning are satisfactory forms of preparation. Any corroded re-enforcing steel shall be abraded, or grit blasted to remove all scale, rust, etc.

If application of the rbs Epoxy Mortar LW is to be delayed, then a coat of a Steel Primer should be applied as an anti-corrosive holding primer for prepared steelwork.

Priming – Mix and apply a coat of rbs Epoxy Primer in accordance with the product data sheet instructions. Ensure the primer is tacky prior to application of the mortar.

Mixing – It is supplied as a three-component pack. Each component is pre-weighed and ready to mix. Pour the contents of the CURING AGENT container into the BASE container and mix thoroughly by mechanical means. The mixed resins shall be poured into a suitable mixing vessel and the AGGREGATE added steadily whilst the mixer is in motion. Mix for 2-3 minutes until a uniform consistency is achieved.

Application – Whilst the rbs Epoxy Primer remains in a 'tacky' condition, i.e. within 90 minutes of application, apply the rbs Epoxy Mortar LW, ensuring good compaction, and then close and finish with a steel float. Where a roughened profile is required, finish with a plastic float. rbs Epoxy Mortar LW may also be placed by gloved hand for comparatively inaccessible applications. Chequer board application is recommended for larger areas of rendering. Application thicknesses of up to 50mm per layer may be achieved. If additional layers are required, scratch finish the first layer and then re-prime the following day prior to subsequent applications.

Curing – rbs Epoxy Mortar LW will have cured sufficiently after 24 hours @ 20°C to be put back into most kinds of service.

7 days cure @ 20°C will be required to ensure optimum mechanical properties and full chemical resistance.

Cleaning – All tools should be cleaned using a proprietary solvent-based cleaner before the material hardeners. If the resin is allowed to set it can only be removed by mechanical means.

Directions For Preparation & Part Mixing

In order to part mix we recommend a ratio as follows:

1Kg Mix = 240g Base Resin / 60g Curing Agent Hardener / 700g Filler

Due to the lightweight powders within the filler component, it is recommended to dry mix and blend the filler every time you part mix. This will ensure consistency of product.

Thoroughly mix base resin and curing agent hardener first then gradually add the filler component.

Technical Data

Specific Gravity	1.175
Pot Life @ 20°C	40 minutes
Touch Dry @ 20°C	12 Hours
Hard Dry @ 20°C	18 Hours
Compressive Strength	30MPa
Tensile Strength	8MPa
Adhesion to Concrete	4MPa (Concrete Failure)
Colour	Light Grey (colour matches possible with addition of cement colourant)

<div>UK CA</div> <div>UK NI</div>	
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DOP No. CPR-RBP-007-001	
EN 1504-3 Structural and non-structural repair 3.1, 7.1 & 7.2	
Compressive Strength	≥25MPa
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 ² .h ^{0.5})
Durability	Pass
Stiffening Time	Declared Value
Workability	Declared Value

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

Packaging

rbs Epoxy Mortar LW is a three component material supplied in one pack size: 10 kg (8.5 litres).

Storage

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.

rbs Epoxy Mortar LW has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

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.

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