rbs Epoxy Mortar LW

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.

Uses

- Repairs to Precast Units.
- Repairs to damaged concrete on vertical/overhead applications.
- Repairs to bund areas where chemical resistance is required.
- Repairs to Mullions, Soffits.

Advantages

- Excellent adhesion to substrate.
- Good Impact and Abrasion Resistance.
- High Build application.
- Suitable for application to damp surfaces.
- Impermeable and Waterproof.
- Chemically Resistant.
- Good Mechanical Properties.
- Increases effective Concrete Cover.

Directions For Use

Substrate preparation – All substrates must be structurally sound, free from contaminants, such as oil, grease and traces of other coatings, and should be suitably textured to provide a mechanical key; this may be achieved by scabbling or needle gunning. The substrate may be damp, but there must be no freestanding water.

Priming – The prepared substrate must be primed using the mixed rbs Epoxy Primer resin and hardener on horizontal and vertical surfaces. The mix ratio is 2 parts resin to 1 part hardener by weight or volume, 3kg of mixed material being sufficient to prime approximately 12m².

Application should be by tar brush or roller, brushing being essential for a damp surface when the primer must be sheared into the substrate to displace any moisture.

Mixing – Empty the contents of the Hardener Component into the Resin Component and mix thoroughly using a low speed drill fitted with a Mixer Paddle. The mixed Resin and Hardener should immediately be poured into a clean plastic bucket and the Filler Component added steadily whilst mixing and then for a further 2-3 Minutes until a uniform consistency is achieved.

Application – The mixed rbs Epoxy Mortar LW should be applied to the tacky primer coat, using a steel trowel, pressing firmly into position. In some cases it may be more practicable to knead into position by gloved hand. Thickness of application which may be achieved is dependant on size of patches, but if slumping occurs, proceed by building up in layers, scratching each layer and allowing it to harden before applying subsequent layers. Use a priming coat of rbs Epoxy Primer between each layer. Application thicknesses of up to 50mm per layer may be achieved however a minimum thickness of application is 3mm should be observed.

Temperature Limitations: rbs Epoxy Mortar LW should not be applied at temperatures below 5°C or above 35°C.

rbs Epoxy Mortar LW will cure sufficiently after 24 Hours @ 20°C to be put back into most kinds of service conditions however full Mechanical and Physical Performance will not be achieved until 7 Days @ 20°C.

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.

Technical Data

Density	1800kg/m^3
Pot Life @ 20°C	50 minutes
Cure Times @ 20°C	Initial Set - 5 hours Primary Cure - 12 hours Full Cure - 7 hours
Compressive Strength	1 day - 20MPa 7 days - 45MPa
Tensile Strength	1 day - 6MPa 7 days - 8MPa

Packaging

rbs Epoxy Mortar LW is a three component material supplied in one pack size: 19.65 kg (10.9 litres).

Storage

Store in dry, cool, frost-free conditions in the original containers. Under such conditions the shelf life will be at least 12 months.

Revison Date: July 2024

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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