

## Description

rbs Epoxy Mortar is a three component bulk pack. Its high strength and non-shrink characteristics provides a repair mortar stronger than concrete in less than 24 hours, has high adhesion, is impermeable to water, oil, petrol and resistant to many chemical spillages.

## Uses

- Repairing Precast Units
- Repairs to spalled and cracked concrete structures
- Floor repairs where chemical resistance is required
- Industrial floor joint repairs, to produce high strength nosings
- Repairs to worn or damaged floors, stair nosings and treads
- Bedding mortar for bridge bearings, beams & runway lights

## Application

**Substrate preparation** – The substrate should be sound, dry and free from all contaminants, such as dust, oil and grease. Repair area edges should be saw cut to approx. 5mm to avoid feathered edges.

**Priming** – Despite the high filler component addition, rbs epoxy mortar remains a resin rich system, which is self-priming. However, on particularly porous absorbent substrates, priming may be required. For areas less than 0.1m<sup>2</sup> a convenient method involves the use of a small proportion of the mixed resin/hardener liquid before the filler has been added. Larger areas should be primed with rbs Epoxy Primer.

**Mixing** – Empty the contents of the resin tin into a clean bucket or similar vessel, then add the hardener component. Care should be taken to avoid hardener losses when mixing which may result due to the lower viscosity of the hardener component compared to the resin.

The use of a mechanical mixer such as a slow speed drill and EPI MR4 mixer paddle is recommended. Mixing should be carried out for a minimum of 2 minutes.

The filler component should then be added slowly and mixing continued for a further 1-2 minutes to ensure a totally homogenous mix. Once mixed rbs Epoxy Mortar should be placed immediately.

**Application** – rbs Epoxy Mortar is typically applied by trowel and is to be treated as a slumping mortar. Large

sections will not stand unsupported and will need shuttering. Shutters should be treated to ensure ease of release.

**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.

## Performance Data

Density	2100kg/m <sup>3</sup>
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N.B. In common with other epoxy resin systems rbs Epoxy Mortar should not be applied at temperatures below 5°C.

### Typical pot life:

	Temp °C	Pot Life (mins)
Standard Grade	5	120
	20	60

The pot life for epoxy grouts and mortars will vary depending on the quantity of mixed material. The times quoted are only for guidance.

### Typical compressive strength development (MN/m<sup>2</sup>):

	Temp °C	1 Day	3 Days	7 Days
Standard Grade	5	45	60	70
	20	70	75	80

Typical ultimate physical properties (BS 6319)	
Compressive Strength	80 MN/m <sup>2</sup>
Tensile Strength	14 MN/m <sup>2</sup>
Flexural Strength	8 MN/m <sup>2</sup>
Compressive Modulus	12 GN/m <sup>2</sup>

For details on compliance of rbs Epoxy Mortar to Department of Transport Specification for Highway Works, clause 2601, please contact our technical department.

## Storage

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

## Packaging

rbs Epoxy Mortar is three component material. The 19.5kg Pack yields 9 litres.

Contract packaging options are also available. Please contact our Technical Department for further information.

## Health & Safety

rbs Epoxy Mortar consists of epoxy resins and hardener systems, which are currently classified as hazardous materials. Wear suitable protective clothing, eye/face protection and gloves, and ensure adequate ventilation. For further Health and Safety information, please refer to the relevant Safety Data Sheet.

## 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 himself that each product is fit for the purpose for which he intends to use it, 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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