

MAXCRETE 100LW – LIGHTWEIGHT CONCRETE REPAIR MORTAR

Description	MAXCRETE 100LW - is a lightweight epoxy repair mortar, designed to repair vertical and overhead concrete surfaces. The mixed material has a very high build capability of up to 75mm in a single application, reducing application time considerably versus conventional repair methods.
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Applications	<ul style="list-style-type: none"> • Head lintels • Window sills • Columns • Damaged Stonework
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Surface Preparation	<p>The concrete surface must be free of all dust and loose materials.</p> <p>Compressed air can be used to clean any thin hairline cracks or deep pitting</p> <p>For oil contaminated surfaces an enzyme cleaner must be applied to the surface to ensure that All residual oil contamination is removed.</p> <p>The concrete can be abraded using a mechanical grinder to ensure the repair material is adhering to a sound concrete surface</p>
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Kit Contents 2.5kg	<p>1 x kit contains the following components:</p> <ul style="list-style-type: none"> • 1 x Primer Base and 1 x Primer Activator • 1 x Aggregate Activator • 1 x bag of pre-mixed (base resin) Aggregate
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Priming	<p>All repair surface must be primed - Pour the primer (activator) component into the primer (base) component and mix with the spatula provided. Once the resin is streak free apply by brush to the repair area. Ensure the primer is pressed into any cracks or pitting and the concrete surface is thoroughly wetted.</p>
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Mixing

Do not apply when the ambient or substrate temperature is below 5°C (40°F)

Empty the bag of aggregate (aggregate is pre-mixed with the based component resi) into the 5ltr pail provided and then add the activator component to the aggregate.

For the best results use an electric paddle mixer to ensure the two components are thoroughly mixed.

Application

Once mixed apply the material on to the primed surface the primer should be wet or tacky. The best application method for crack or when a shutter is used is by forcing the material in to the repair with a gloved hand and the finishing with a float.

For overhead or vertical surfaces, the material can be applied up to 75mm using melamine boards as temporary shuttering to support the mortar whilst curing. For best results spray water onto the face of the trowel for the finishing skim

Coverage

2.5kg unit of mixed product will have the following theoretical coverage rates at a nominal thickness of:

- 0.83m² at 3mm
- 0.5m² at 5mm
- 0.36m² at 7mm
- 0.277m²at 9mm

Cure Times

The applied materials should be allowed to harden for the times indicated below. These times will be extended at lower temperatures and reduced at higher temperatures:

Usable Life 60mins

Movement without load or immersion 8 hours

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Over-Coat Times

Minimum – the applied material can be over-coated as soon as it is touch dry.

Maximum – over-coating time **12 hours**.

Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded and solvent washed to remove any surface contamination

Pot Life @ 20°C

50 - 60 minutes

Properties

- Compressive strength Tested to ASTM D 695 420kg/cm² (6000psi)
- Flexural Strength Tested to ASTM D790 280kg/cm² (4000psi)
- Direct Pull off Adhesion Tested to ASTM D4060 35kg/cm² (500psi)

Legal Notice

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control.

It is the responsibility of the customer to determine the products suitability for use.

Maxkote accepts no liability arising out of the use of this information or the product described herein.

Health and Safety

Please ensure good practice is always observed during the mixing and application of this product.

Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

