

M-CRETE 100 – LIGHTWEIGHT EPOXY CONCRETE REPAIR MORTAR

M-CRETE 100 – Lightweight Epoxy Concrete Repair Mortar

Is formulated using solvent free epoxy resins and lightweight fillers. The product is designed for the long-term repair of spalled and damaged concrete.

Due to the low mixed weight of the material is perfectly suited for vertical and overhead **concrete repairs** or to repair damaged stone.

The mixed material has a very high build capability of up 50.0mm in a single application.

This helps to reduce the application time and repair cost considerably, versus conventional repair methods.

Any exposed reinforcing bar will need to be prepared and treated with a primer such as **M-PRIME 200 – Metal Surface Primer** to stop further corrosion and spalling.

Typical Uses

- Reinforced Concrete Lintel Repair
- Concrete Windowsill Repair
- Concrete Column Repair
- Damaged Stonework
- Cosmetic Repairs to Bridges and Concrete Structures

Please contact us to discuss your project before purchasing this material to confirm suitability.

Application Guide

Surface Preparation - Concrete

- The concrete surface must be free of all dust and loose materials, compressed air can be used to clean any thin hairline cracks or deep pitting.
- For oil contaminated surfaces an enzyme cleaner must be applied to the surface to ensure that all residual oil contamination is removed.
- The concrete can be abraded using a mechanical grinder to ensure the repair material is adhering to a sound concrete surface.

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Priming

APG-REV2- 2022

All repair surfaces must be primed

- Pour the primer (activator) component into the primer (base) component tin 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.

Environmental Checks

Prior to mixing, please ensure the following:

- The material components are at a temperature between 15-25°C.
- The ambient & surface temperature is above 10°C.
- The ambient & surface temperatures are not less than 3°C above the dew point.

Mixing

- Transfer the bag of aggregate (aggregate is pre-mixed with the based component) into the 5ltr, tin 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.

Product Application

By Hand

- Once mixed best application method is by forcing the material into the repair with a gloved hand and finishing with a float to achieve the required surface finish.
- For overhead or vertical surfaces, the material can be applied up to 50mm 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.

Technical Information

Appearance	Activator Aggregate	Amber liquid Grey powder
Mixing Ratio		Full Units
Density	Mixed	1.00
Solids Content		100%
Sag Resistance	Nil at	50mm

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Usable Life	10°C	2 hours
	20°C	60 minutes
	30°C	30 minutes
Coverage	A 2.5kg unit will have the following coverage rate	0.83m ² at 3mm
		0.5m ² at 5mm
		0.36m ² at 7mm
		0.277m ² at 9mm
Cure Times at 20°C	Touch dry hours	8 hours
	Maximum overcoat time	24 hours
Storage Life	Unopened and stored in dry conditions (15-30°C)	5 years
Direct Pull off Adhesion	Tested to ASTM D4060	35kg/cm ² (500psi)
Compressive Strength	Tested to ASTM D 695	420kg/cm ² (6000psi)
Flexural Strength	Tested to ASTM D790	280kg/cm ² (4000psi)

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.

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