

M-CRETE 200 – HEAVY DUTY EPOXY SCREED

M-CRETE 200 - Heavy Duty Epoxy Screed

This is an epoxy based high strength repair mortar and screed. The material is designed for patch repairs to spalled and damaged concrete and for resurfacing high traffic areas used by heavy good vehicle and forklift trucks.

The material when mixed can be applied to damaged concrete surfaces at a minimum thickness of 4mm with no maximum thickness.

Due to the fine graded aggregates used in the material, M-CRETE 200 is perfect for feather edging applications.

M-CRETE 200 – Heavy duty Epoxy Screed has very good chemical resistance to a wide variety of common industrial chemicals.

Typical Uses

- Warehouse Floor Repair
- Industrial Floor Areas
- Rebuild Damaged Bunds & Containment Areas
- Resurfacing Loading Bays
- Repair Damaged Steps & Walkways

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

Application Guide

Surface Preparation

- For a successful application, the repair area must be as clean, grease-free, and dry as possible, with all loose and friable materials removed.
- For manual surface preparation, use grinders, chisels, and wire brushes.
- For large areas, a floor grinder or high-pressure wash may be required dependent on the application.

Environmental Checks

- For best results the mortar must be applied whilst the primer is still wet or tacky.
- Do not apply when the ambient or substrate temperature is below 5°C (40°F).

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4XL



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Priming

All repair surfaces 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.

Mixing

- Mix the activator (as marked) with the base component (as marked).
- Mix the two parts in the base tin with the spatula provided.
- Ensure all the material is thoroughly mixed and streak free.
- Pour the contents of the mixed resin into the container the product was delivered in and add the aggregate slowly to the resin.
- Mix the aggregate and resin together with an industrial paddle or forced action mixer.

Please note

For applications to concrete surfaces lower than 12°C (50°F), add 75% of the aggregate and check the consistency of the mix.

Colder temperatures will thicken the resin, and therefore less aggregate is required to create a trowel applied product. Add the remaining 25% of aggregate to produce the correct consistency for the repair.

Product Application

- Once you have the correct consistency, empty the contents of the mixed product onto the floor or repair area.
- Spread the screed with a trowel wooden baton or rubber squeegee and then using a steel float with firm pressure, smooth the material to the desired thickness.
- To improve surface appearance spray clean water onto the face of the float and lightly skim the surface ensuring the material is not overworked as this may bring the resins to the surface.

Technical Information

Appearance	Base Activator Aggregate	Clear liquid Straw liquid Natural or Grey milled powder
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Mixing Ratio By Weight 9:1

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Density	Base	1.12
	Activator	1.00
	Aggregate	2.7
	Mixed	2.5
Solids Content		100%
Sag Resistance	Nil at	20mm
Usable Life	10°C	50 minutes
	20°C	25 minutes
	30°C	12 minutes
Coverage	45kg of mixed product will give the following coverage rates	3.6m ² at 5mm 1.8m ² at 10mm 0.9m ² at 20mm
Cure Times at 20°C	Minimum overcoating time	6 hours
	Foot Traffic	24 hours
	Vehicles	48 hours
Storage Life	Unopened and stored in dry conditions (15-30°C)	5 years
Abrasion Resistance	Taber CS17 Wheels/1 Kg load	145mg loss/1000 cycles
		0.53cc loss/1000 cycles
Direct Pull off Adhesion	Tested to ASTM D4060	35kg/cm ² (500psi) Concrete failure
Impact Resistance	Tested to ASTM D256	1.8 joules
Compressive Strength	Tested to ASTM D 695	880kg/cm ² (12500psi)
Flexural Strength	Tested to ASTM D790	490kg/cm ² (7000psi)
Shrinkage	Tested to ASTM C246	Nil

Chemical Resistance Guide

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Chemicals & Concentrations

Test Temperature

Acetic Acid 10%	30 °C
Ammonia Hydroxide 30%	45 °C
Benzene 100%	35 °C
Butanol 100%	40 °C
Chromic Acid 10%	40 °C
De-ionised Water	40 °C
Ethanol 100%	45 °C
Hydrobromic Acid 40%	30 °C
Hydrochloric Acid 36%	35 °C
Nitric Acid 10%	30 °C
Phosphoric Acid 75%	45 °C
Steam out	180 °C
Sulphuric Acid 98%	40 °C
Toluene 100%	40 °C
Xylene 100%	40 °C

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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