

MAXCRETE 200HD – HEAVY DUTY CONCRETE REPAIR MORTAR

Description	MAXCRETE 200HD – HEAVY DUTY CONCRETE REPAIR MORTAR 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.
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Applications	<ul style="list-style-type: none"> • Warehouse floors • Industrial areas • Chemical bunds • Resurface loading bays • Damaged steps
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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. Use grinders, chisels and wire brushes. For large areas, a floor grinder or high-pressure wash may be required dependant on the application.
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Kit Contents 10kg	<p>1 x kit contains the following components:</p> <ul style="list-style-type: none"> • 1 x Base component • 1 x Activator Component • 1 x Bag Quartz Aggregate • 1 x Primer base and activator
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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.
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Mixing - Mortar

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

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 of 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.

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 wooded 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.

Coverage

10kg kg unit of mixed product will have the following theoretical coverage rates at a nominal thickness of:

- 0.86m² at 5mm
- 0.43m² at 10mm
- 0.215m² at 20mm

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Cure Times at 20°C

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 20 – 30 minutes
- Hard Dry 6 hours
- Foot Traffic 24 hours
- Forklift traffic 48 hours

Over-Coat Times

Minimum – the applied material can be over-coated as soon as it is hard dry 6 hours.

Maximum – over-coating time **24 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

20 - 30 minutes

Properties

- Abrasion Resistance Taber CS17 Wheels/1 Kg load 145mg loss/1000 cycles
0.53cc loss/1000 cycles
- Compressive strength Tested to ASTM D 695 880kg/cm² (12500psi)
- Flexural Strength Tested to ASTM D790 490kg/cm² (7000psi)
- Direct Pull off Adhesion Tested to ASTM D4060 35kg/cm² (500psi)
- Concrete failure Impact Resistance Tested to ASTM D256 1.8 joules
- Shrinkage Tested to ASTM C246 Nil

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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.