Magna-Crete®
Fast, all-weather concrete repair system
The unique, two-component, rapid setting concrete repair and grouting system that dramatically outperforms conventional concrete repairs.

**Typical Applications Include:**

**Repair**
- Manufacturing, storage, and shipping floors
- Ramps and loading docks
- Distribution center and warehouse floors
- Commercial freezers
- Beam and footer repairs
- Leveling floors
- Highways, roadways, and highway dividers
- Bridge decks and nosings
- Parking garages

**Grouting**
- Pre-cast panel grouting
- Columns, foundations, bedplates, baseplates, and machinery
- Anchor bolts and handrails
- Underpinnings
- Crane and track rails
- Roadway dowel rods
- Pressure grouting of realigned slabs
- Concrete consolidation voids or cavities

This bridge sidewalk curb was successfully repaired with Magna-Crete® in early February, when temperatures were below freezing. And because Magna-Crete® does not shrink or crack and is freeze/thaw resistant, this repair is sure to last for many winters to come.

Beam repair in this underground garage was Magna-Crete® product to neutralize rust on the head application easy. With Magna-Crete®, the
**Ignore the weatherman.**

In a perfect world, concrete repairs would be done on warm, dry, sunny days when there’s plenty of time to sit back and relax. For the remaining days in the year, there’s Magna-Crete®.

Unlike conventional cement, latex and acrylic-modified quick-set mixes, Magna-Crete® does not use water. That means you can make repairs in all weather conditions, at temperatures from 15°F to 130°F (-9°C to 54°C).

**It’s like concrete on steroids.**

Magna-Crete® is made with a high performance, magnesium polyphosphate-based system. The liquid phosphate quickly reacts with the dry magnesium to create a hard, concrete-like substance.

Within two hours, Magna-Crete® reaches the strength of concrete (3000 psi). At full cure, Magna-Crete® has a strength of more than 13,000 psi. And because it uses a chemical bond (as opposed to a mechanical bond like many other concrete repair products), Magna-Crete® does not shrink or crack and is freeze/thaw resistant.

**Just say no to downtime.**

Don’t blink. Magna-Crete® cures much faster than concrete. You can build on it, walk on it, and even drive over it less than an hour after you put it in place, and in many cases in as little as 20 minutes. Try that with other repair materials.

**The go anywhere, do anything repair material.**

Versatile and easy to use, Magna-Crete® can be mixed thick or thin, and used for vertical, horizontal, and overhead applications. Better still, it bonds to new and old concrete and other construction materials, such as wood, glass, and steel.

Everything you need to perform an effective repair is in the Magna-Crete® kit, including a mason trowel. You just mix the aggregate and activator components and apply. It’s that easy.

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**Fast Facts About Magna-Crete®**

- More cost-effective than epoxies or acrylics
- Chemical resistant to most common liquids and chemicals, excluding acids
- Can be painted when cured, or tinted by adding pigment to the aggregate
- Virtually impermeable with a porosity of <1%
- Set times from 10 to 90 minutes depending on air temperature
- Can be mixed and applied from 15°F to 130°F (-9°C to 54°C)
- In-service temperatures from -40°F to 2000°F (-40°C to 1093°C)
- Bonds to concrete, wood, glass, steel, and other construction materials
- Can be finished with screed, trowel, or broom

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**specially easy due to the ability of the rebar. The thick mixture also made over e’s no such thing as a difficult repair.**

**In just one day, two men completed repairs to this entire pier wall, thanks to the unique ability of the Magna-Crete® formula to quickly set in as little as ten minutes.**
Surface Preparation
Surface must be clean, dry, and free of loose material. Remove all dirt, blacktop tar, and oil from the area to be covered, leaving a rough, clean surface. Form materials should be plastic or formica. Do not pre-wet surface.

Mixing
Magna-Crete® can be mixed to desired consistency (thick or thin) without changing the strength characteristics of the product. This product may be mixed all at once, using all of the activator with all of the aggregate. Do not add water. Pot life may be increased by adding more activator. Paddle, ribbon, and concrete mixers may also be used. Mix thoroughly within 1 or 2 minutes of placement and finish application as quickly as possible.

Application
Magna-Crete® can be finished with a screed, trowel, or broom. Use Magna-Crete® to any depth desired without affecting the bonding properties. Do not rework material after it has begun to set. Keep an adequate supply of water on hand for clean-up. After use, all equipment should be cleaned immediately with water, or the material will harden and become difficult to remove. Material will begin to set in 15 minutes at 68°F (20°C).

Curing
Magna-Crete® sets in or out of doors, in 10 to 90 minutes depending upon ambient temperatures. It can be mixed and applied from 15°F (-9°C) to 130°F (54°C). Once in place, Magna-Crete® can be built upon, walked on, or driven over in as little as one hour.

Important Note
Water will decrease the strength of the Magna-Crete® repair area considerably and should be cleared from the work area by compressed air before application. For the same reason, water should not be used to dilute Magna-Crete® or adjust consistency. Clean, dry aggregate should always be used.

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<th>PROPERTIES CHART</th>
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<tr>
<td><strong>PRODUCT</strong></td>
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<tr>
<td>Magna-Crete®</td>
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* Coverage at 1/4" thickness

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