

**SINGLE COMPONENT
STRUCTURAL REPAIR MATERIAL
USE DOWN TO 32°F**

POWER-CRETE®

**RAPID SETTING TOPPING
8900 PSI COMPRESSIVE STRENGTH
READY FOR SERVICE IN 8 HOURS**

PRODUCT DESCRIPTION

POWER-CRETE is one component structural concrete repair material suitable for a wide range of applications. It is portland cement based with select graded silica and proprietary modifiers to enhance strength and durability. This unique combination of materials gives a repair which is dimensionally stable, extremely strong, has an outstanding bond to a concrete surface and provides structural integrity. **P-100 PRIMER** is used with **POWER-CRETE** to insure a consistent and reliable bond. For surfaces with a low porosity, **POWER-CRETE** can be installed with **EP-200 EPOXY PRIMER**. **POWER-CRETE** has an outstanding bond compressive strength, flexural strength, wear resistance and high early strength.

PRODUCT APPLICATIONS

POWER-CRETE is a fast-setting trowel grade repair material for horizontal application. It may be used to repair parking decks, bridge structures, pier and deck supports, water and sewage treatment plants, factory and warehouse floors, manholes, for concrete topping and other similar applications.

Use **POWER-CRETE** when the repair must be ready for service in 8 hours. Use in cold weather, down to 32°F. It may be used for interior or exterior repairs, above or below grade. **POWER-CRETE** may be used from 1/2" to 6". Suitable for applications with vehicle and forklift traffic.

PRODUCT FEATURES

- High Early Strength
- Ready for Service in 8 Hours
- Apply from 1/2" to 6"
- Use Down to 32°F
- High Compressive and Flexural Strength
- Outstanding Bonding
- Wearing Surface
- Interior or Exterior Use, Above or Below Grade
- Can be Mixed with Integral Color

PRODUCT TEST RESULTS (Typical)

WORKING TIME: 20 Minutes

COLOR: Light Gray

COMPRESSIVE STRENGTH (ASTM C-109, Air Cured)

<u>1 Day</u>	<u>3 Days</u>	<u>7 Days</u>	<u>28 Days</u>
4265	6925	7775	8900

FLEXURAL STRENGTH (ASTM C-348, Air Cured)

<u>3 Days</u>	<u>7 Days</u>	<u>28 Days</u>
879	1227	1790

BOND STRENGTH (ASTM C-1042, Air Cured)

(P-100 PRIMER) 28 Days
1490

SHRINKAGE (ASTM C-596)

<u>7 Days</u>	<u>28 Days</u>
0.01%	0.01%

SURFACE PREPARATION - All concrete surfaces must be clean and structurally sound; free of oil, grease, dust, sealers, coatings, release agents, curing compounds, etc. Remove all contaminants mechanically by chipping, shotblasting, grinding or bushhammering. Remove dust by vacuum or blowing with compressed air. All bonding surfaces must be clean and sound, mechanically abraded to 1/8" profile and in a saturated, surface dry condition for application of **POWER-CRETE**. For surfaces with low porosity, mechanical abrasion can be avoided by utilizing **EP-200 EPOXY PRIMER** per installation instructions on the **EP-200 EPOXY PRIMER** literature.

MIXING - **POWER-CRETE** may be mixed with a heavy duty high speed drill and paddle mixer or in a paddle type mortar mixer for higher volume. Place water in mixing container and add power slowly while mixing. Mix thoroughly for 3 minutes. Use 3 quarts of water per 50 lb. bag. **DO NOT MIX** more material than can be placed in 15 minutes. Use ice water to extend working time, if needed. Integral colors can be added.

APPLICATION - Use **P-100 PRIMER** to insure a good bond. Apply a smooth, even coat of **P-100 PRIMER** and let it dry before placing **POWER-CRETE**. **P-100 PRIMER** dries in about a 1/2 hour at 70°F, slower in colder temperatures. See **PRECAUTIONS** for limits on temperature at installation. For surfaces with low porosity, utilize **EP-200 EPOXY PRIMER** following installation instructions on the **EP-200 EPOXY PRIMER** literature. **P-100 PRIMER** will reemulsify when wet **POWER-CRETE** comes in contact with it, if applied within 24 hours of **P-100 PRIMER** drying. Placement should be full depth and continuous to avoid cold joints. **POWER-CRETE** can be pumped.

Do not featheredge **POWER-CRETE**. Saw cut to obtain straight edge with minimum 1/2" thickness. Finish **POWER-CRETE** to designed surface finish. Repaired area may

be opened for use in 8 hours; more time is required in cold weather.

Normally, any required coatings may be applied after 24 hours. Check moisture content before applying non-breathable coatings, such as epoxy.

Paints and coatings may be applied over **POWER-CRETE** as you would over concrete. Lubricate trowel with water to prevent dragging. **POWER-CRETE** will not take acid stains, but concrete water based stains and dye and seal products may be used.

CURING - After finishing, follow proper concrete curing procedures. In adverse weather conditions, follow ACI recommended procedures for hot/cold weather. Wet cure after material is hard for 24 hours or apply a high solids water base curing compound. Weathering and surface oxidation may cause a bonding problem with exterior applications.

USE OF AGGREGATE - Addition of pea gravel is not recommended or required for product performance.

PRECAUTIONS - Do not featheredge **POWER-CRETE**. Do not use below 32°F. Do not install **P-100 PRIMER** and **POWER-CRETE** at surface temperatures below 41°F. Air temperature should not drop below 32°F for the first 2 days of cure. Always make a trial installation under actual job conditions to be sure you get the desired results before using on larger areas. Do not allow material to freeze for 12 hours after application.

COVERAGE - One 50 lb. bag of **POWER-CRETE** yields .41 cu. ft. and will cover 45 sq. ft. at 1/8" thickness.

PACKAGING - **POWER-CRETE** is packaged in 50 lb. bags with moisture resistant lining.

CONTAINS PORTLAND CEMENT. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately. Keep out of the reach of children.

CONTAINS SILICA SAND AND FREE SILICA. Do not breathe dust. Avoid inhalation by wearing respirator. Continuous exposure and inhalation may cause silicosis and crystalline silica is classified as a known human carcinogen.

LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, because of many factors beyond our control in their use, such as job conditions, workmanship, etc., the liability of all parties making and selling this product is expressly limited to the refund of the purchase price or replacement of the Lyons material used. Lyons Manufacturing, Inc. will replace any product proven to have a manufacturing defect, FOB Factory, provided Lyons Manufacturing, Inc. is notified of such defect within one (1) year from the date of shipment from the factory. This warranty is in lieu of all other warranties, express or implied. Lyons Manufacturing, Inc. makes no warranty of suitability of its products for any particular application and sells its products upon the condition that customer shall conduct their own test to determine the suitability of the products for their purposes. Under no circumstances will Lyons Manufacturing, Inc. be liable for economic, special, incidental or consequential damages or losses of any kind.

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