

Road and Highway Repair
Over 3000 PSI in 3 Hours
Economical



Fast Setting, High Early Strength
Over 8200 PSI in 7 Days
Full Depth Road Repairs
Ready for Service in 3 Hours

-----PAVEQUICK HR-----

PRODUCT DESCRIPTION

PaveQuick HR is a single component, polymer modified, fiber-reinforced, quick setting concrete repair material developed to provide a very strong and durable patch. **PaveQuick HR** uses a unique blend of materials which provides a high early strength and fast setting, durable repair with a slight expansion to reduce water seepage. **PaveQuick HR** also contains a corrosion inhibitor.

PRODUCT APPLICATIONS

PaveQuick HR is a fast setting trowel grade repair material for horizontal applications and in vertical application if formed and poured. **PaveQuick HR** is an excellent repair material for expressways, roads, ramps, bridges, streets, parking lots and concrete floor slabs. **PaveQuick HR** is suitable for highway and road repair. **PaveQuick HR** performance specifications meet or exceed most DOT criteria, especially where return to service is critical.

PRODUCT FEATURES

- Exceeds ASTM C-928 and ASHTO T260 Requirements.
- Over 3000 PSI in 3 Hours
- Apply from 1/2" to Full Depth
- Outstanding wearing surface
- Expands slightly, providing a tight fit with surrounding concrete.
- Withstands Freeze-Thaw and Salt Applications
- Works as low as 32°F
- Fiber-Reinforced for added Flexural Strength

PRODUCT TEST RESULTS

Working Times: 10 Minutes
Color: Grey
Results based on 5 Pints of Water

COMPRESSIVE STRENGTH

(ASTM C-109; Air Cured)

<u>3 Hours</u>	<u>1 Day</u>	<u>7 Days</u>	<u>28 Days</u>
3150 PSI	6105 PSI	8200 PSI	9630 PSI

SET TIME @ 70°F

(ASTM C-266)

<u>Initial Set</u>	<u>Final Set</u>
40 Minutes	45 Minutes

FLEXURAL STRENGTH

(ASTM 348; Air Cured)

<u>7 Days</u>	<u>28 Days</u>
750 PSI	1150 PSI

BOND STRENGTH

(ASTM C-882 Modified)

7 Days
2550 PSI

FREEZE-THAW RESISTANCE

(ASTM C-666)

Procedure A (300 Cycles) 99% Durability Factor

SURFACE PREPARATION

For partial depth repair make a half (1/2) inch minimum vertical saw cut around perimeter of area to be repaired. Chip out area to repair to saw cut edge. Be careful not to fracture surrounding concrete. For full depth repairs use **PaveQuick HR**. Any preexisting structural steel will need to be replaced. Any corrosion present must be removed and sealed to prevent further contamination. All surfaces must be clean and structurally sound, free of dust, grease, oil, paint, sealers, etc., and in a saturated-surface-damp (SSD) condition with no standing water on the surface.

MIXING INSTRUCTIONS

PaveQuick HR may be mixed in a drum type mortar mixer or using a low speed drill or paddle type mortar mixer. Use 4.75—5.25 pints (depending on desired consistency) of clean water per 50 lb. bag. Place water in the mixer first and add **PaveQuick HR** powder **slowly** while mixing. Be sure to allow mixer 2-3 minutes to properly mix product before placing. **Do not mix** more material than can be mixed and placed in ten (10) minutes. Rinse out mixer between batches.

APPLICATION INSTRUCTIONS

In partial depth road repairs, it is a good practice to use an acrylic surface bonding agent. Be sure to apply **PaveQuick HR** while the bonding agent is still tacky (not dry). Do not use PVA bonding agents with **PaveQuick HR**.

Place **PaveQuick HR** firmly into area to be patched, trowel or screed to proper level, and finish with trowel or broom for desired finish. Be sure to perform these operations quickly before **PaveQuick HR** is set. Release to traffic an hour (1 hour) after **PaveQuick HR** has set.

Deep Applications: For DOT and heavy traffic applications (bridge deck, roadways, parking structures, etc) over 1", **PaveQuick HR** should be extended with clean, SSD, 3/8" aggregate up to 60% by weight (30lbs). For applications over 4", extend up to 100% by weight (50 lbs) and mixed an additional 2 min. Choose a clean (free of organic material) well-graded 3/8" aggregate. Aggregate should be pre-dampened prior to mixing with **PaveQuick HR**. The total mixing water for the batch shall be reduced by the amount of free water found in the aggregate. 60% extension will add approx. 0.18 cu-ft and 100% extension will add approx. 0.34 cu-ft to the unit yield.

CURING

After finishing, follow proper concrete curing procedures. In adverse weather conditions, follow ACI recommended procedures for hot/cold weather. **PaveQuick HR** is self-curing under normal conditions. An ASTM C-309 compliant, water based curing compound may be used under extremely dry conditions. Never add additional water to the surface when finishing **PaveQuick HR**.

COVERAGE

One 50 lb. bag of PaveQuick HR will yield 0.42 cu. ft. and will cover 20 sq. ft. at a 1/4 inch thickness. Do not add additional water.

SHELF LIFE

One year in original, unopened package when stored in cool, dry conditions. Exposure to humid conditions will reduce shelf life.

PACKAGING

PaveQuick HR is packaged in 50lb bags with moisture resistant lining, 60 bags per pallet. Also available in 3,000 lb Super Sacks.

PRECAUTIONS

Never use in applications or less than a half (1/2) inch. Always allow **PaveQuick HR** to cure one hour after material has set before allowing traffic to resume over repaired area. Never use additives or PVA bonding agents with this product. Do not retemper after initial mixing. Do not allow **PaveQuick HR** to freeze before it has set.

- Contains Portland Cement : Avoid contact with eyes and 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 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. Crystalline silica is classified as a known human carcinogen.

LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, due to many factors beyond our control during use, such as job conditions, workmanship, etc., the liability of all parties making and selling this product is expressly limited to the refund of purchase price or replacement of the Lyons Manufacturing materials used. Lyons Manufacturing, Inc. will replace any product proven to have a manufacturing defect, FOB Factory, provided Lyons Manufacturing is notified of such defect within one (1) year from the date of shipment. This warranty is lieu of all other warranties, expressed 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 tests to determine the suitability of the product for their specific 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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