



Blending Cement Products Since 1967

POR-ROK Concrete Patch



**Founded, Based and
MADE IN THE U.S.A.**

Cement Based Vertical and Horizontal
Repair Mortar

DESCRIPTION:

Por-Rok Concrete Patch is a single component, cement based, fiber reinforced repair mortar designed for vertical and overhead applications. Por-Rok Concrete Patch can be built up to 4" on vertical applications. Por-Rok Concrete Patch is designed to repair vertical and horizontal concrete and can be used on Bridge columns, parking structures, columns, spandrels beams, concrete ceilings, tunnels, pipes, pilings and any other vertical or overhead concrete repair application.

Por-Rok Concrete Patch is a light concrete grey color and can be sculpted after initial set.

PRODUCT FEATURES:

- Rapid setting
- Single component - Easy to use
- Shrinkage compensated
- Exceptional compressive and flexural strength
- Light grey in color to match existing concrete
- Excellent adhesion
- PolyBond can be used to improve freeze thaw resistance and bond strength

SUBSTRATE PREPARATION:

All surfaces must be sound, clean, free of loose or damaged concrete, dust, dirt and other contaminants that will interfere with bond.

Abrade the concrete to obtain a rough surface thereby promoting adhesion. The area should be saturated surface dry (SSD) with no standing water. The use of a vigorously scrubbed in no slump bond coat of Por-Rok Concrete Patch or a bonding agent like PolyBond is recommended. This should be applied to all surfaces coming into contact with the patch. Do not allow bond coat to dry prior to the placement of Por-Rok Concrete Patch.

Steel Exposure and Rebar:

Completely expose and clean all reinforcing steel, ensuring a minimum clearance of 3/4" behind reinforcing steel. Perform reinforcing steel preparation in accordance with ICRI Technical Guidelines No. 03730. For best results patch area edges should be saw cut to a depth of 1/4".

MIXING:

Standard Mixing:

Mix close to repair area. Approximate initial set is 10-15 minutes at 70 degrees. Only mix what can be placed before initial set. Always mix by adding the dry product to the water. For each 50 lb. bag of Por-Rok Concrete Patch add 3.75 - 4.25 quarts of clean potable water (Roughly 1 part water to 5 parts powder). Use a low speed mortar mixer or a 1/2" drill with mixing paddle. Mix for a minimum of 90 seconds in order to obtain a uniform consistency. Do not re-temper.

Enhanced Mix:

Mix close to repair area. Approximate initial set is 10-15 minutes at 70 degrees. Only mix what can be placed before initial set. Always mix by adding the dry product to the liquid. Add 1 gallon of PolyBond per 50 lb. bag of Por-Rok Concrete Patch (Roughly 1 part PolyBond to 5 parts powder). Use a low speed mortar mixer or a 1/2" drill with mixing paddle. Mix for a minimum of 90 seconds in order to obtain a uniform consistency. Do not re-temper.

APPLICATION:

Immediately apply the fresh mortar to the surface, force Por-Rok Concrete Patch firmly into the properly prepared area insuring full contact with all bonding surfaces. Overfill the area and after initial set, using a steel trowel, sculpt Por-Rok Concrete Patch to the desired final profile, shaving from the center towards the bond edge at the existing surfaces. A water mist may help with final shaping.

03 01 00

Maintenance of Concrete

3

03 50 00

Concrete Repair

3

PACKAGING:

50 lb. bag : 48 per pallet
10 lb. pail : 160 per pallet
5 lb. pail : 320 per pallet

COLOR:

Concrete Grey

SHELF LIFE:

6 Months

WATER REQUIREMENTS (50 LBS):

Standard Mixing:
3.75—4.25 quarts per 50 lb. bag
(1 Part Water to 5 Parts Powder)

Enhanced Mix:

1 gallon of PolyBond per 50 lb. bag
(1 Part PolyBond to 5 Parts Powder)

REQUIRED APPLICATION TOOLS:

Mixing bucket
Measuring pail
Margin or steel trowel
Mixing drill
Mixing paddle

APPROX. COVERAGE: 50 LB. BAG

.46 cubic ft.
1/4" covers 22 ft²

INSTALLATION THICKNESS:

Horizontal and Vertical Repairs:
4" Single Lift

INSTALLED WEIGHT (PER SQ. FT.)

2.2 lbs. @ 1/4"

APPLICATION TEMPERATURE

RANGE:
35°F - 95°F

SET: ASTM C-191 (70°F - 50% RH)

Working Time: 12 - 15 Minutes
Final Set: 30 Minutes

Por-Rok Concrete Patch

In deep areas additional lifts can be made after the original patch has reached initial set (approximately 15 minutes). Score and roughen the original lift layer to improve bond between applications.

Por-Rok Concrete Patch used neat, can be placed in lifts up to 4" on vertical applications by holding the mortar in place until initial set takes place.

After initial set a damp sponge can be used to smooth to desired finish.

CURING:

Cure in accordance with American Concrete Institute Procedure No. 308. Keep Por-Rok Concrete Patch moist and protected from high temperature, high wind, low humidity and direct sun causing rapid drying, by covering with wet burlap or plastic for up to 24 hours. A water based curing can be used.

IMPORTANT APPLICATION NOTES AND LIMITATIONS:

1. It is the responsibility of the contractor to review the complete technical datasheets of CGM products referenced above as more detailed information may be required. The information provided above acts only as a general guideline and may vary based on jobsite conditions.
2. Keep from freezing during and 24 hours after application
3. Do not add accelerators, admixtures or foreign chemicals
4. On new concrete always test for Cure and Seals which inhibit bond. If Cure and Seals are present they must be removed by mechanical means prior to applying Por-Rok Concrete Patch.
5. Cooler temperatures, inadequate ventilation and higher humidity can extend drying times.

COMPRESSIVE STRENGTH:

(ASTM C-109)

| | | |
|---------|----------|----------|
| 1 Day | 3300 psi | 22.7 MPa |
| 7 Day | 4500 psi | 31.0 MPa |
| 28 Days | 6000 psi | 41.3 MPa |

FLEXURAL STRENGTH:

(ASTM C348)

| | | |
|---------|-----------|---------|
| 28 Days | >1000 psi | 6.9 MPa |
|---------|-----------|---------|

SLANT SHEER BOND:

(ASTM C 882)

| | | |
|---------|-----------|----------|
| 28 Days | >1500 psi | 10.3 MPa |
|---------|-----------|----------|

EXPANSION / SHRINKAGE:

(ASTM C 157 Modified Per C 928)

| | Air Cure | Water Cure |
|---------|----------|------------|
| 28 Days | -.08% | +.005% |

Eligible LEED credits : 5

Regional Materials (MR 5.1 & 5.2)

2 Points

Low Emitting Materials (EQ 4.1)

1 Point

STORAGE:

Store in cool dry place. Tightly seal package and do not expose to sun.

FLAMMABILITY: (ASTM E-84)

Flame Spread: -0-

Fuel Contribution: -0-

Smoke Development: -0-

VOLITALE ORGANIC COMPOUNDS

0 g/l

CLEAN UP:

Clean tools with water immediately after use or by mechanical means once dry.

HEALTH AND SAFETY:

Always refer to the Safety Data Sheet (SDS) prior to using this product for full Health, Safety and Handling guidelines. SDS sheets are available by calling 215.638.4400 or you can visit www.cgmbuildingproducts.com

For Professional Use Only

KEEP OUT OF REACH OF CHILDREN



***Founded, Based and
MADE IN THE U.S.A.***