TECHNICAL DATA SHEET

POR-ROK CONCRETE PATCH

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" (102 mm) 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, spandrel beams, concrete ceilings, tunnels, pipes, pilings and any other vertical or overhead concrete repair application.

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

BENEFITS

- Rapid setting
- Single component; easy to use
- Shrinkage-compensated
- Exceptional compressive and flexural strength
- Light gray color to match existing concrete
- Excellent adhesion
- SpecChem Strong Bond can be used to improve freeze-thaw resistance and bond strength

APPLICATION

Substrate Preparation: All surfaces must be sound, clean and free of loose or damaged concrete, dust, dirt and other contaminants that will interfere with bond. Abrade the concrete to obtain a rough surface that promotes adhesion. The area should be saturated surface-dry (SSD) with no standing water. A vigorously scrubbed-in, no-slump bond coat of Por-Rok Concrete Patch or a bonding agent such as SpecChem Strong Bond is recommended on all surfaces that will contact the patch. Do not allow the bond coat to dry before placing Por-Rok Concrete Patch.

Steel Exposure and Rebar: Completely expose and clean all reinforcing steel, ensuring a minimum clearance of 3/4" (19 mm) behind it. Prepare reinforcing steel in accordance with ICRI Technical Guideline No. 03730. For best results, saw-cut the patch area edges to a depth of 1/4" (6 mm).

Standard Mix: Mix close to the repair area. Approximate initial set is 10–15 minutes at 70 °F (21 °C); mix only what can be placed before initial set. Always mix by adding the dry product to the water. For each 50 lb (22.7 kg) bag of Por-Rok Concrete Patch, add 3.75–4.25 quarts (3.5–4.0 L) of clean, potable water (roughly 1 part water to 5 parts powder). Use a low-speed mortar mixer or a 1/2" (13 mm) drill with a mixing paddle. Mix for a minimum of 90 seconds to obtain a uniform consistency. Do not retemper.

Enhanced Mix: Mix close to the repair area. Approximate initial set is 10–15 minutes at 70 °F (21 °C); mix only what can be placed before initial set. Always mix by adding the dry product to the liquid. Add 1 gal (3.79 L) of SpecChem Strong Bond per 50 lb (22.7 kg) bag of Por-Rok Concrete Patch (roughly 1 part Strong Bond to 5 parts powder). Use a low-speed mortar mixer or a 1/2" (13 mm) drill with a mixing paddle. Mix for a minimum of 90 seconds to obtain a uniform consistency. Do not retemper.

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

In deep areas, additional lifts can be placed after the previous lift has reached initial set (approximately 15 minutes). Score and roughen the previous lift to improve bond between applications. Used neat, Por-Rok Concrete Patch can be placed in lifts up to 4" (102 mm) 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 the patch to the desired finish.

Curing: Cure in accordance with ACI 308. Keep Por-Rok Concrete Patch moist and protected from high temperature, high wind, low humidity and direct sun, which cause rapid drying, by covering with wet burlap or plastic for up to 24 hours. A water-based curing compound can be used.

APPLICATION NOTES

1. It is the responsibility of the contractor to review the complete technical data sheets of the CGM products referenced above, as more detailed information may be required. The information provided above is only a general guideline and may vary based on jobsite conditions.

2. Keep from freezing during application and for 24 hours after application.

3. Do not add accelerators, admixtures or foreign chemicals.

4. On new concrete, always test for cure-and-seal compounds, which inhibit bond. If present, they must be removed by mechanical means before applying Por-Rok Concrete Patch.

5. Cooler temperatures, inadequate ventilation and higher humidity can extend drying times.

TECHNICAL DATA INFORMATION

Compressive Strength (ASTM C109)

1 day.....3,300 psi (22.8 MPa)

7 days.....4,500 psi (31.0 MPa)

28 days.....6,000 psi (41.4 MPa)

Yield

Yield per 50 lb (22.7 kg) unit ..... 0.46 cu ft (13.0 L)

CLEANING

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

PACKAGING

- 50 lb (22.7 kg) bag; 58 per pallet
- 10 lb (4.5 kg) pail; 160 per pallet
- 5 lb (2.3 kg) pail; 320 per pallet

SHELF LIFE

Store in a cool, dry place. Tightly seal the package and do not expose to sun. Shelf life is 12 months; rotate stock.

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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