

Vertical/Overhead Patching Compound

Vertical and Overhead Concrete and Masonry Patching Compound

Specification Data Sheet



1. BASIC USES

- Developed for patching distressed vertical and overhead as well as horizontal surfaces including precast products, concrete pipe, curbs, sidewalks, bridges, panels and walls.
- For interior or exterior, above or below grade.
- To fill honeycombs, form tie rise holes, spalls or irregularities due to misaligned forms or unconsolidated concrete.

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Vertical/Overhead Patching Compound is a one component, polymer modified, cement based concrete and masonry patching compound suitable for vertical and overhead as well as horizontal surfaces.

Advantages: Pecora Vertical/Overhead Patching Compound offers the following features –

- Fast setting, low slump repair mortar that can be trowelled, shaped and shaved after the initial set

PACKAGING

• 50 lbs. (22.7kg) moisture resistant bag
 Requires 4 to 5 quarts (3.8 to 4.7L) of water per 50 lbs of powder
 Yield - one 50 lb. bag yields approx. 0.48ft.³ (0.01 m³)
 Yield w/gravel – with the addition of 15 lbs. (6.8 kg) of 3/8" (10mm) pea gravel is approx. 0.60 ft.³ (0.02 m³)

COLOR

- Gray

- Easy shaping and molding
- One component incorporating water activated polymer system
- Integrated corrosion inhibitor
- Can be applied overhead and vertically without using expensive forming procedures
- Apply from 1/2" to 1" (13 to 25mm)
- Tenacious bond to substrates
- Portland cement based
- Normal set time of 30 minutes

Best Performance:

- Do not bridge moving cracks, control or expansion joints.
- Protect from conditions that cause early water loss: such as wind, sunlight, heat, etc.
- The minimum applications thickness is 1/2" (12mm)
- Do not overwork, re-temper, over water or add admixtures.

4. TECHNICAL DATA

Applicable Standards: Test results obtained under controlled laboratory conditions. Reasonable variations can occur due to atmospheric and job site conditions.

5. INSTALLATION

Refer to:

- ICRI Guide No. 03732 Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays
- ACI 305 Standard on Hot Weather Concreting
- ACI 306 Standard on Cold Weather Concreting
- ACI 308 Standard Practice for Curing Concrete

TYPICAL PHYSICAL PROPERTIES

Test Property	Test Value	Test Procedure
Working Time @70°F (21°C)	15 min.	
Set Time @70°F (21°C)		ASTM C191
Initial Set Time	Approx. 20 min.	
Final Set Time	Approx. 30 min.	
Compressive Strength		ASTM C928
1 hour	1,925 psi (13.3 MPa)	
3 hours	3,340 psi (23.0 MPa)	
1 day	4,885 psi (33.7 MPa)	
7 days	5,845 psi (40.3 MPa)	
28 days	6,500 psi (44.8 MPa)	
Freeze/Thaw Resistance (After 300 cycles)	1% loss due to slight scaling; No spalling	ASTM C666B
Ave. Scaling Resistance	25 cycles Rating: 0	ASTM C67298
	Condition of surface: no visible scaling	
Shear Bond Strength		ASTM C882
1 day	1,035 psi (7.1 MPa)	
7 days	1,650 psi (11.4 MPa)	
Flexural Strength		ASTM C348
1 day	1,142 psi (7.9 MPa)	
28 days	1,180 psi (8.1 MPa)	

Surface Preparation: Adjoining surfaces must be clean, dry and free of loose or damaged concrete, dust, dirt and other contaminants that will interfere with bond. Completely expose and clean all reinforcing steel, ensuring a minimum clearance of 3/4" (19 mm) 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 1/2" (13mm). Abrade concrete to obtain a rough surface to promote adhesion. The area should be saturated surface dry (SSD) with no standing water on the surface. The use of a vigorously scrubbed application of a no slump bond coat of Pecora Vertical/Overhead Patching Compound or a bonding agent 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 the Vertical/Overhead Patching Compound.

Mixing: Mix only the amount of material that can be placed in 15 minutes. For each 50 lb. (22.7kg) bag, pour 4-5 quarts (3.8 to 4.7L) of clean, potable water into a clean mixing container. To the clean water, add the measured amount of Vertical/Overhead Patching Compound and blend thoroughly for 1-2 minutes to a lump free putty like consistency. Small amounts of Vertical/Overhead Patching Compound can be mixed using a trowel or a 1/2" drill (400-500 r.p.m.) and paddle.

Extended Mix: To fill areas deeper than 2" (51 mm), add 15 lbs. (6.8 kg) of clean saturated surface dry 3/8" (10 mm) pea gravel to 50 lbs. (22.7 kg) of Vertical/Overhead Patching Compound. First mix the Vertical/Overhead Patching Compound as stated above, then add the pea gravel and mix for 60 seconds. Total mixing time is not to exceed 2-3 minutes.

Do not over water, re-temper or over mix. Clean out the mixing container thoroughly after each batch to avoid getting hardened mortar into the next batch.

Application: Do not apply to frozen or frost covered areas. The minimum ambi-

ent and surface temperatures should be 40°F (4°C) at time of application. Hot weather and conditions above 80°F (27°C) will reduce working time and accelerate set, while cold temperatures below 60° F (16°C) will have a retarding effect.

Immediately apply the fresh mortar into the entire surface, forcing Pecora Vertical/Overhead Patching Compound firmly into the previously prepared area insuring full contact with all bonding surfaces. Slightly overfill the area. After initial set, using a trowel, shave Vertical/Overhead Patching Compound to the desired final profile, shaving the patch from the center towards the bond edge at the existing surfaces. A wet spray may be used for final shaping. In deeper areas additional lifts can be made after the original patch has reached initial set. Score and roughen the original lift layer to improve bond between applications. Vertical/Overhead Patching Compound can be placed in lifts up to 1" (25mm) on vertical and overhead applications by holding the mortar in place until set has occurred.

Curing: Cure in accordance with American Concrete Institute procedure number 308.

Protect patch 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 compound can also be used.

Cleaning: Use water to clean all tools immediately after use.

Storage Life: 12 months from date of manufacture when stored in original unopened containers. Always keep in a cool dry place unexposed to sunlight.

Precautions: Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. The wearing of gloves and safety goggles is recommended. In case of eye contact, flush thoroughly with water and call physician. DO NOT RUB EYES. In case of skin contact, wash exposed skin area with soap and water and consult a physician if irritation persists. Do not take internally. If ingested, immediately consult a physician. Crystalline silica sand may

cause serious lung problems. Avoid breathing dust and wear an appropriate NIOSH-approved respirator. If dust is inhaled, remove to fresh air. Consult Material Safety Data Sheet (MSDS) for more information.

**FOR PROFESSIONAL USE ONLY.
KEEP OUT OF THE REACH
OF CHILDREN.**

6. AVAILABILITY AND COST

Pecora products are available from stocking distributors nationwide. For the name and telephone number of your nearest representative, call the number below or visit our website at www.pecora.com.

7. LIMITED 1 YEAR WARRANTY

Pecora® warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Pecora will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Pecora for its use, and Pecora shall not be liable otherwise. Replacement of any defective product, or, at Pecora's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Pecora shall in no event be liable for any damages in excess of the purchase price of the defective product. PECORA SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES INCLUDING LOSS OF PROFITS OF ANY KIND. Product demonstrations are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. This Warranty constitutes the sole warranty given by Pecora in connection with this product. No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Pecora. Pecora has authorized no person to make or give any other war-

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8. TECHNICAL SERVICES

Local Pecora representatives are available to assist you in selecting an appropriate product and to provide on-site application instructions, or to conduct job-site inspections. For further information and assistance, please call our Technical Service department at 215-723-6051 or 800-523-6688.

9. KEY INDUSTRY LINKS

- American Concrete Institute
www.concrete.org
- International Concrete Repair Institute
www.icri.org
- Sealant Waterproofing and Restoration Institute www.swrionline.org
- United States Green Building Council
www.usgbc.org

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