

VINYL CONCRETE PATCH

Description

ProSpec® Vinyl Concrete Patch is a single component, fast setting, polymer modified portland cement based product for concrete repair.

Features

- Can be featheredged*
- Brush, broom or trowel applications
- Ready for pedestrian traffic in 8-12 hours
- Ready for vehicle traffic in 48 hours
- Superior workability
- Superior abrasion resistance
- Superior resistance to deicing salts
- Shrinkage compensating
- Exceeds ASTM C 387 for High Strength Mortar

* Featheredging is permitted for light traffic areas when the Vinyl Concrete Patch is modified with ProSpec Acrylic Additive.

Uses

Horizontal repair of:

- Balcony/decks
- Overlayment and underlayment applications
- Industrial floors
- Driveways
- Tunnels
- Loading docks
- Concrete pipes
- Concrete beams and columns
- Resetting/pointing of brick, block or stone
- Walkways
- Curbs
- Ramps
- Concrete roof tile

Technical Data

Set Time ASTM C 191

Initial set	35-45 minutes
Final set	60-70 minutes

Compressive Strength ASTM C 109

24 hours air cured	>2,400 psi (16.5 MPa)
7 days	>5,000 psi (34.5 MPa)
28 days	>5,500 psi (37.9 MPa)

Flexural Strength ASTM C 78

7 days	>1,400 psi (9.7 MPa)
28 days	>1,850 psi (12.8 MPa)

Tensile Strength ASTM C 190

7 days	>500 psi (3.4 MPa)
28 days	>600 psi (4.1 MPa)

Shear Bond Strength ASTM C 882

28 days	>1,800 psi (12.2 MPa)
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Length Change Percent ASTM C 157

Air cured	-0.003%
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Splitting Tensile ASTM C 496

28 days	>450 psi (3.1 MPa)
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Resistance to Deicing Salts ASTM C 672

25 cycles	0 visual rating
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Modulus of Elasticity ASTM C 469

2.45 x 10 ⁻⁶

Abrasion Resistance ASTM C 944

28 days	2.3 g loss
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Test results obtained under controlled laboratory conditions. Tested using 3 qts. (2.8 L) of water. Reasonable variations can occur due to atmospheric and job site conditions.

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Preparation

1. Clean area and remove all unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance.
2. Slick or sealed surfaces must be thoroughly roughened.
3. Clean all reinforcing steel to bare white metal and coat with ProSpec® Rebar Coat.
4. Surface should be brought to a saturated surface dry (SSD) condition with clean potable water.
5. For difficult to bond substrates or featheredge applications, mix with ProSpec Acrylic Additive.

NOTE: It is the responsibility of the installer/applicator to ensure that test areas are performed to determine the suitability of the product for its intended use.

Refer to

- ASTM D 4259 [Abrading Concrete](#)
- ICRI Guideline 03730 [Surface Preparation Guidelines for Repair of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation](#)
- ICRI Guideline 03731 [Selecting Application Methods for the Repair of Concrete Surfaces](#)
- ICRI Guideline 03732 [Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays](#)
- ACI 201.1R [Guide for Making a Condition Survey of Concrete in Service](#)

Mixing

1. Add dry material to 3-4 quarts (2.8-3.7 L) of clean potable water per 40 lb. (18.1 kg) bag.
2. For enhanced performance Substitute 1 quart (0.9 L) of ProSpec Acrylic Additive for 1 quart (0.9 L) of water per 40 lb. (18.1 kg) bag.
3. Mix mechanically with a high torque electric drill not to exceed 600 r.p.m. with a paddle type mixing blade or an appropriately sized mortar mixer.
4. Mix for a maximum of 3 minutes to ensure a homogenous consistency.
5. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the mix temperature.
6. For broom applications: Mix 3 quarts of ProSpec Acrylic Additive with 3 quarts of clean potable water and gradually add the 40 lb. (18.1 kg) bag of ProSpec Vinyl Concrete Patch.

Placement

1. Mix only the amount of material that can be placed in 20 minutes.
2. For placements greater in depth than 2" (50 mm), preblend 16 lbs. (7.3 kg) washed SSD (saturated surface dry) of 0.37" (9.5 mm) graded aggregate per 40 lb. (18.1 kg) bag or place in lifts to a maximum of 2" (50 mm) in depth.
3. To obtain a nonskid surface use a damp sponge, rubber float or a damp broom.
4. For brush or broom coat resurfacing, dampen the broom and spread the material to an even thickness.
5. If other materials are to be installed over the substrate, consult that manufacturer for recommendations.
6. Do not apply on substrates that are frozen or contain frost.
7. Do not bridge over existing expansion or control joints.

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Curing

Do not wet the surface before the material has reached final set. Maintain a minimum of 40° F (4° C) for 24 hours after application. Product should be air cured, unless hot and/or drying winds or low humidity are present. Under such conditions, lightly fog spray.

Refer to

- ACI 308 [Standard Practice for Curing Concrete](#)

Color

Gray

Yield

1 lb. (0.45 kg) covers approximately 1 sq. ft. (0.09 m²) @ 1/8" (3.17 mm)
40 lbs. (18.1 kg) yields 0.36 cu. ft. (0.01 m³)

Packaging

40 lbs. (18.1 kg) bag

Shelf Life

One year from date of manufacture.

Best Performance

- Apply when air or substrate temperature is between 40° F (4° C) and 100° F (38° C).
- Use only clean mixing container and tools.
- Do not re-temper.
- Do not over trowel.
- Do not apply over substrates that are frozen or contain frost.
- Do not add any materials other than clean potable water or recommended additive.
- Do not apply over nonstructural light weight concrete.
- Do not apply over concrete cured less than 7 days.

NOTE: Proper application and installation of all ProSpec products are the responsibility of the end user.

Caution

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Product is alkaline and may burn or irritate upon contact with eyes or skin. Do not take internally. Use of safety goggles, rubber gloves and dust respirator is recommended. Avoid prolonged

contact with clothing. This product contains crystalline silica. Take measures to contain and reduce dust. Prolonged exposure to crystalline silica may cause silicosis or other serious delayed lung injury.

Avoid breathing dust. For prolonged exposure wear a respirator approved for protection against crystalline silica dust. Crystalline silica has been classified by IARC and NTP as a carcinogen.



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First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes and SEEK IMMEDIATE MEDICAL ATTENTION. For skin contact, wash thoroughly with soap and water. If swallowed,

SEEK IMMEDIATE MEDICAL ATTENTION. For additional information, call Bonsal American at 704-525-1621 or CHEMTREC at 800-424-9300 or 703-527-3887 outside of the USA.

Refer to Material Safety Data Sheet (MSDS) for further information.

LIMITED 1 YEAR WARRANTY FROM DATE OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American 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 Bonsal American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product, or, at Bonsal American's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. BONSAL AMERICAN 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 Bonsal American 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 Bonsal American. Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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