PROSPEC®

Floor Preparation • Concrete Repair • Tile Setting

Premium Patch 200

1. PRODUCT NAME

ProSpec® Premium Patch 200

2. MANUFACTURER

H.B. Fuller Construction Products Inc.
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.

1-800-552-6225 Office
1-800-952-2368 Fax
prospec.com

3. PRODUCT DESCRIPTION

ProSpec® Premium Patch 200 is a rapid-setting, fiber reinforced, high strength, polymer-modified cement mortar designed for concrete repair and overlay applications requiring high durability.

Features and Benefits

- Polymer-modified for increased flexural strength
- Excellent bond - no bonding agent needed
- Interior/exterior
- High early strength - over 2000 psi (14 MPa) in one hour allows repairs to be opened to traffic within 60 minutes
- Wide temperature range - from 20°F to 100°F (-6°C to 38°C)
- Apply 1/2" (12 mm) to 2" (51 mm)
- Can be extended up to 60% by weight for repairs greater than 2" (51 mm) deep
- High performance cement technology and alkali resistant fibers help improve impact, flexural and tensile strengths
- Contains corrosion inhibitor
- Contains no chlorides or magnesium phosphates
- Compatible with portland cement formulated concrete
- Suitable for DOT horizontal concrete repairs*
- Cement based, non-corrosive - not a chemical concrete
- Meets ASTM C928, Standard Specification for Packaged, Dry, Very Rapid, Hardening Cementitious Materials for Concrete Repair

* Call for ProSpec® Technical Services for state DOT approvals

Uses

Concrete repair mortar designed to repair heavy duty surfaces such as:

- Highway repairs and overlays
- Bridge decks and parking structures
- Airport runways
- Freezer rooms
- Heavy industrial and warehouse repairs
- Loading docks and wastewater treatment facilities

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS Sheets are available on our website prospec.com or contact: Medical Emergency Phone Number (24 Hours): 1-888-853-1758, Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300 or contact ProSpec® Technical Services: 800-832-9023 (7:00AM to 5:00PM M-F, Central US Time).

CAUTIONS

Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758.
This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered ProSpec® brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Working Time @ 70ºF (21ºC)	15 minutes
Set Time ASTM C 191 @ 70ºF (21ºC)	
Initial Set	Approx. 18 minutes
Final Set	Approx. 20 minutes
Compressive Strength ASTM C 109 @ 75°F (24°C)	
1 hour	2,650 psi (18.3 MPa)
3 hours	3,800 psi (24.1 MPa)
1 day	5,400 psi (41.3 MPa)
7 days	7,500 psi (55.1 MPa)
28 days	9,100 psi (69.0 MPa)
Compressive Strength ASTM C 109 @ 40°F (4°C)	
1 hour	N/A
3 hours	3,000 psi (17.2 MPa)
1 day	5,000 psi (27.6 MPa)
7 days	8,000 psi (55.1 MPa)
28 days	10,000 psi (69.0 MPa)
Compressive Strength ASTM C 109 @ 100°F (38°C)	
1 hour	3,000 psi (24.1 MPa)
3 hours	5,500 psi (34.5 MPa)
1 day	5,600 psi (41.3 MPa)
7 days	7,800 psi (55.1 MPa)
28 days	9,100 psi (69.0 MPa)
Flexural Strength ASTM C 348	
7 days	>1,100 psi (4.8 MPa)
28 days	>1,200 psi (5.4 MPa)
Bond Strength ASTM C 882	
1 day	1,500 psi (9.6 MPa)
7 days	3,000 psi (13.8 MPa)

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

TECHNICAL DATA (cont.)

Test Length Change of Hardened Cement Mortar and Concrete ASTM C 928			
Change	Water storage	Air storage	Differential
28 days	+0.038%	-0.094%	0.132%
ASTM C 928 requirement	Max. to 0.15%	Max. to -0.15%	Max. to 0.20%

Scaling Resistance (Freeze/Thaw) ASTM C 672 Average of 3 specimens		
No. of Cycles	Rating	Condition of surface
5	0	No scaling visible
10	0	No scaling visible
15	0	No scaling visible
20	0	No scaling visible
25	0	No scaling visible

Test results obtained under controlled laboratory conditions. Reasonable variations can occur due to atmospheric and job site conditions. Water Used: 3.25 qt (3.1 L) clean potable water per 50 lb (22.7 kg) bag.

LEED® Eligibility[1]

- Regional Materials (MR-c5)

Product Enhancement

Rapid Cure Technology (RCT®)
Improves the strength, controls shrinkage and prevents efflorescence of our products, without sacrificing workability or working time.

Expansion Stabilization Technology (EST®)
Special additive designed to reduce the potential for cracking and shrinkage.

Packaging

Gray: 50 lb (22.7 kg) bag - Product #65510323

Shelf Life

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, under cool, dry conditions and out of direct sunlight.

5. INSTALLATION

All materials should be stored at 40°F (4°C) to 80°F (27°C) 24 hours prior to installation.

- Surfaces must be solid, clean, free of all bond breakers such as oil, grease, dirt etc. Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means.
- The base concrete should be roughened to enhance mechanical bond and repair areas should be in a saturated surface dry (SSD) condition with all standing water removed.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Application

Ideal application conditions are when air, material and substrate temperature are between 40°F (4°C) and 80°F (27°C). For applications outside this range of temperatures, contact ProSpec® Technical Services.

Hot and Cold Weather Applications

Ideal mixed product temperature at placement is 65°F-70°F (21°C), where the initial setting time is 15-20 minutes. Hot temperatures will shorten setting time, while cold temperatures will extend setting time.

Hot Weather 80ºF to 100ºF (27ºC to 38ºC):

Keep Premium Patch 200 cool. Pre-soak and then remove standing water from the repair area, resulting in a saturated surface dry (SSD) surface. Mix Premium Patch 200 using ice water to extend working time. The repair must be protected from rapid dry out with wet burlap or a water based curing compound.

Cold Weather 20ºF to 40ºF (-7ºC to 4ºC):

Do not use antifreeze or accelerators and keep Premium Patch 200 warm. Heat the surrounding concrete until warm. Combine the warmed repair material with warm mixing water. After placing use a construction insulating blanket for at least 2-3 hours and keep material from freezing.

Refer to:

ACI 305 Standard on Hot Weather Concreting
ACI 306 Standard on Cold Weather Concreting

Job Mockups

The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

Mixing

- Mix as close to the area being repaired as possible. Premium Patch 200 requires only the addition of water. Use 3.25 qt (3.0 L) per 50 lb (22.7 kg). Place the potable water into the mixing container and then while mixing add the repair material.
- Premium Patch 200 can be mixed in a mortar mixer or by using a paddle attached to a heavy duty 1/2" drill (650 rpm). Mix for 2-3 minutes to a lump free consistency. Do not retemper or overwater. Place immediately after mixing, working Premium Patch 200 firmly into the sides and bottom eliminating air pockets and ensuring bond. This is best done working from one side of the cavity to the other and then screeding toward the adjoining concrete.
- For repairs deeper than 2" (5 cm), Premium Patch 200 can be extended 60% by weight using clean 3/8" (10 mm) dry pea gravel. Mix the Premium Patch 200 as outlined and then during the last minute of mixing (after 2 minutes) add the pea gravel, blend for 1 additional minute and place.

Curing
Premium Patch 200 should be moist cured for 1 hour after final set (approximately 20 minutes) or the application of a water-based curing compound is acceptable. Prolonged wet curing minimizes the chances of cracking and improves physical properties.

Cleaning
Use water to clean all tools immediately after use.

Limitations
Do not use for applications less than 1/2" (12 mm) thick.
Do not retemper after mixing.
Do not overwater or add other cements or additives.
Protect from premature drying.

Coverage
50 lb (22.7 kg) yields approximately 0.4ft^3 (0.01 m^3).

50 lb (22.7 kg) extended with 30 lb (13.6 kg) of 3/8" (10 mm) pea gravel yields approximately 0.61 ft^3 (0.02 m^3).

6. AVAILABILITY
To locate ProSpec® products in your area, please contact:
Phone 800-832-9002
Website: prospec.com

7. WARRANTY
For warranty details, see your sales associate or prospec.com

8. MAINTENANCE
Not applicable.

9. TECHNICAL SERVICES
Technical Assistance
Information is available by calling the Technical Support Hotline.
Toll Free: 800-832-9023
Fax: 630-952-1235

Technical and Safety Literature
To acquire technical and safety literature, please visit our website at prospec.com

10. FILING SYSTEM
Division 3

[1] ProSpec® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

Data Sheets are subject to change without notice.
For the latest revision, check our website at prospec.com

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