

1. PRODUCT NAME

ProSpec® Slab Bedding Grout Rapid

2. MANUFACTURER

H.B. Fuller Construction Products Inc.
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3. PRODUCT DESCRIPTION

ProSpec® Slab Bedding Grout Rapid is an ultra-fast setting, non-shrink, high compressive strength, load bearing, non-metallic grout used for placing precast concrete slabs.

Features and Benefits

- Highly fluid, can be pumped through 1 1/4" (32 mm) grout ports
- Ultra-fast set: up to 2,500 psi compressive strength in 1 hour
- Non-metallic
- Cement based, non-corrosive
- Set time can be extended by using ProSpec® Set Extender

Uses

- Ideal for bedding grout for precast concrete roadway panels
- Fill small voids between the prepared sub-grade and precast concrete slabs
- Ideal for grouting applications of limited clearance

SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS Sheets are available on our website prospec.com.

Medical Emergency Phone Number (24 Hours):

1-888-853-1758,

Transport Emergency Phone Number (CHEMTREC):

1-800-424-9300

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

Compressive Strength - ASTM C942 (air curing)	
Strength at 1 hr	
@ 73 °F	> 2,500 psi (17.2 MPa)
@ 45 °F	> 2,000 psi (13.8 MPa)
Strength at 1 day	
@ 73 °F	> 6,000 psi (41.4 MPa)
@ 45 °F	> 5,500 psi (37.9 MPa)
Strength at 7 days	
@ 73 °F	> 7,600 psi (52.4 MPa)
@ 45 °F	> 6,000 psi (41.4 MPa)
Strength at 28 days	
@ 73 °F	> 8,000 psi (55.1 MPa)
@ 45 °F	> 7,000 psi (48.3 MPa)
Expansion – ASTM C940	0 to 3%
Bleeding at 30 min. – ASTM C940	<0.1%
Efflux time (flow cone) – ASTM C939	< 20 seconds
Grout Bond Strength, bond to dry PCC – CT551	427 psi @ 24 hr

Greater than: > Greater than or equal to: ≥

Less than: < Less than or equal to: ≤

Note: Test results obtained under controlled laboratory conditions at 73°F (22.8°C) and 50% relative humidity. All materials were preconditioned to 73°F (22.8°C) before testing. Reasonable variations can occur due to atmospheric and jobsite conditions.

LEED® Eligibility¹

- Regional Materials (MR-c5)

Packaging

Gray: 35 lb (15.87 kg) bag - Product #7161064858

Shelf Life

6 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 Preparation

All materials should be stored at 45°F (7.2°C) to 80°F (27°C) 24 hours prior to installation.

All grout access ports must be free of any obstructions, dirt, grease, oil or other contaminants.

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

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.

Installation

- Ideal mixed product temperature at placement is 65° - 75°F (18°- 24°C), where the initial setting time is 7-15 minutes. Higher temperatures will shorten setting time, while lower temperatures will extend setting time.
- Hot Weather: Keep Slab Bedding Grout Rapid cool and adjust using ProSpec® Set Extender.
- Cold Weather: Do not use antifreeze. Warm water can be used.

Mixing [40°-75°F (4.4-24°C)]

Mix as close to the area being installed as possible.

1. Use 6.0-6.3 qt. (5.7-6.0L) clean potable water per 35 lb. (16 kg.) bag.
2. Place the potable water into a mortar mixer or similar mechanical mixer and add the grout while mixing. Due to the ultra-rapid setting feature of Slab Bedding Grout Rapid, do not mix by hand.
3. Mix for about 2 minutes to a lump-free consistency.
4. Do not re-temper or add extra water after mixing is complete.
5. To achieve optimum flow, continuous agitation is required.

Note: The water quantities shown are approximate and may vary slightly with type of equipment and application conditions.

Mixing [80°-100°F (27-38°C)]

Adjust the set time using ProSpec® Set Extender per technical data sheet.

Application

The optimum placement air and temperature range is 65-75°F (18-24°C). For applications above this range of temperatures, use ProSpec® Set Extender to adjust the set time.

1. Slab Bedding Grout Rapid is installed by pumping into the grout distribution system cast into each slab.
2. The grout is very fluid, but will take a short while to disperse beneath the slab, so that the port will need to be refilled occasionally until the level ceases dropping in the port.
3. Continue with the pumping of grout into each distribution channel until all the channels in each slab are grouted.

Note: The water quantities shown are approximate and may vary slightly with type of equipment and application conditions

Set Extender per 35 lb. Slab Bedding Grout Rapid Initial Set (minutes)

Bags of Set Extender	40°F	50°F	60°F	70°F	80°F	90°F	100°F
0	61	34	16	12			
1	116	60	30	15	12		
2	144	90	49	27	16	13	12
3	174	104	55	36	22	15	16

Cleaning

Clean tools immediately before Slab Bedding Grout Rapid sets, typically 10-25 minutes.

Limitations

- Do not re-temper after mixing.
- Do not overwater, add other cements or additives.
- Do not exceed 2 inches in one lift.

Coverage

35 lb (16 kg) bag = 0.40 cubic feet (11.3L)

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).

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



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