

1. PRODUCT NAME

ProSpec® Level Set® Deep Pour 3

2. MANUFACTURER

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

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3. PRODUCT DESCRIPTION

ProSpec® Level Set® Deep Pour 3 is a calcium aluminate cement-based, self-leveling underlayment that provides a flat, smooth, durable surface up to 3" (76 mm) in one lift.

Features and Benefits

- Calcium aluminate cement-based
- Provides a smooth surface
- Applications from 3/8" - 3" (10 mm - 76 mm) neat
- Walkable in 3 - 4 hours
- Accepts non-moisture sensitive tile and stone in 4 hours
- Install moisture sensitive floor covering in 36 - 48 hours

Uses

- Interior only
- Level and smooth on, above or below grade concrete
- Ideal for large, thick-build applications
- For other substrates contact ProSpec® Technical Services

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 at 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

Mix Ratio (Water to Powder)	5 qt (4.8L) per 50 lb (22.7kg)
Density	132 lb/ft ³ (2.12 kg/L)
Working Time	25 - 35 minutes
PH	11
Set Time - ASTM C 191	
Final Set	80 - 140 minutes
Compressive Strength - ASTM C 109 (air cured)	
28 days	> 3,500 psi (24.1 MPa)
Flexural Strength ASTM E 348	
28 days	700 psi (4.8 MPa)
Flammability - ASTM E 648	
Ignition	None
Flame Propagation Distance	None
Avg. Critical Radiant Flux (CRF)	> 1.1 W / cm ²
Delamination / Warpage	None

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

Note: Test results obtained under controlled laboratory conditions at 72°F (22°C) and 50% relative humidity. Reasonable variations can occur due to atmospheric and job site conditions.

LEED® Eligibility¹

- Regional Materials (MR-c5)
- Low-Emitting Materials (IEQ-c4.3)

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

50 lb (22.7 kg) bag – Product #65555002

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

Preparation (Concrete, Cutback, and Non-Porous Substrates):

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

Concrete Substrates:

- Clean area and remove all unsound concrete, grease, oil, paint, and any other foreign materials that will inhibit adhesion.
- Substrates must be stable, solid, and structurally sound.
- Maximum bond over a concrete substrate can be achieved by mechanically profiling the substrate either by shot blasting, sand blasting or scarifying to achieve an ICRI CSP3 to CSP5 standard. Structurally sound concrete that is porous, and has not been trowelled smooth and flat may not require mechanical profiling. Typical applications that fall into this category include precast concrete floor panels, or concrete in new construction that is left unfinished in anticipation of receiving self-leveling underlayment. The use of Level Set Primer is required.
- After cleaning and profiling, test for MVER (moisture vapor emission rate - reference ASTM F1869) and concrete substrate's relative humidity (RH) – reference ASTM F2170. The requirements of the floor covering and floor adhesive manufacturers must be followed with respect to, but not limited to, levels of moisture.
- Repair deep areas, holes and nonmoving cracks with ProSpec® Premium Patch 200, ProSpec® Vinyl Concrete Patch or ProSpec® Floor Patch Pro prior to application and allow curing as recommended for each of those products.
- Tensile strength of substrate must be > 72 psi (ASTM C-1583). If the tensile strength is < 72 psi (0.5 MPa) the substrate surface will need to be mechanically prepared, i.e. shot blasted, scarified or similar to achieve a sound surface.
- Concrete that has been power troweled must be tested to verify surface strength and adhesion. If the surface tensile strength is greater than 72 psi (.05 MPa), Level Set® Primer Plus may be used without mechanical profiling.
- All surfaces require priming using a ProSpec® primer such as ProSpec® Level Set® Primer or Level Set® Primer Plus (see "Priming" section).
- Isolate, using foam tape or caulking, all perimeters and sharp corners such as column bases, pedestals, supports, etc.
- Install a bond breaker where vertical surfaces meet the new topping such as a self-adhering, minimum 1/4" (6 mm), foam tape or similar product.
- For installations over other substrates, contact ProSpec® Technical Services.

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

Refer to:

ASTM D 4259 [Abrading Concrete](#)

ACI 201.1R [Guide for Making a Conditions Survey of Concrete in Service](#)

ACI 224.1R93 [Causes and Repair of Cracks in Concrete Structure](#)

ICRI 03732 [Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays](#)

Preparation (cont.)

Adhesive cutback residue over concrete

- Level Set® Deep Pour 3 may be installed over properly prepared cutback adhesive residue that is on concrete only. All adhesive residues must be non-soluble when put in contact with water.
- Before proceeding, test the adhesive residue for water solubility. Water soluble adhesive must be removed mechanically to achieve a clean concrete surface.
- Cutback adhesive residue must be scraped to as thin a layer as possible. The properly prepared cutback adhesive residue must be sound and well bonded to the concrete surface.
- Use only Level Set® Primer Plus over the cutback adhesive residue.

Non-Porous Substrates

- Level Set® Deep Pour 3 may be installed over non-porous substrates such as epoxy coatings, ceramic tile, quarry tile, terrazzo and burnished concrete.
- The substrate must be structurally sound and free from all contaminants such as dust, dirt, grease and any foreign material that may inhibit adhesion.
- Prepare the surface removing all loose material. Use only Level Set® Primer Plus following the mixing instructions on the container. Vacuum thoroughly, removing all dust and other loose contaminants before applying the Level Set® Primer Plus.

Expansion and Control Joints

- Honor all existing expansion joints, control joints and moving cracks through the Level Set® Deep Pour 3. Failure to do so could result in delamination or cracking of the Level Set® Deep Pour 3.

Priming (Concrete, Cutback and Non-Porous Substrates):

- Level Set® Primer or Level Set® Primer Plus must be applied over the entire substrate leaving no bare spots, puddles or excess primer.
- Do not apply over standing water.
- For standard concrete use: Level Set® Primer to water dilution rate of 1:1.
- For highly porous concrete, 2 coats of Level Set® Primer may be necessary.
 - » First Coat: Use a primer to water dilution rate of 1:3.
 - » Second Coat: Use a primer to water dilution rate of 1:1.
- For non-porous substrates, wood, and tight concrete use Level Set Primer Plus.
- Allow the primer to dry to a tacky translucent film with no milky wet spots, typically 1 - 3 hours. If the primer turns clear within 30 minutes of application the substrate is highly porous and requires a second coat.
- Level Set® Primer/Primer Plus must be completely dry before installing Level Set® Deep Pour 3.
- Primer must be reapplied if not covered with Level Set® Deep Pour 3 within 24 hours.
- Protect primed substrate from foot traffic.

Note: Reference Level Set® Primer and Level Set® Primer Plus for more information.

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

Barrel Mixing

1. Mix 2 bags of Level Set® Deep Pour 3 at a time.
2. In a clean 20 - 25 gallon container add 5.0 qts (4.7 L) of clean, cool potable water for EACH 50 lb (22.7 kg) bag. Next add the Level Set® Deep Pour 3, while mixing at full speed using an egg-beater mixing blade attached to a heavy-duty ½" drill (min. 650 rpm). **Do not add extra water.**
3. Mix completely for a minimum of 2 minutes until lump free, adding no additional water. Avoid over watering, over mixing or moving the mixer up and down during mixing as this will entrap air, lower the strength and may cause cracking and/or pin holing. The formation of a white film on the surface is an indication of over watering.
4. To keep the job moving, it is recommended that two mixing drums be used simultaneously. This will allow one mixing container to be poured while the other is being mixed.
5. After use clean all mixing equipment thoroughly to avoid hardened product in subsequent batches.

Pump Mixing

1. ProSpec® Level Set® Deep Pour 3 can be mechanically mixed using either an in-line continuous mixer and pump or a batch mixer and pump using 5.0 qts (4.7 L) clean potable water to EACH 50 lb (22.7 kg) bag of powder.
2. The minimum required hose length is 100 ft (31 m) for In-Line Mixers.
3. For horizontal applications greater than 300 ft and vertical applications greater than 40 ft contact ProSpec® Technical Services at 800-334-0784.
4. Before starting ensure the mixer and pumps are completely clean and in good working order. Refer to the manufacturer instructions for specific maintenance and cleaning.
5. Prior to Level Set® Deep Pour 3 installation adjust the pump to ensure proper mixing and a uniform distribution of sand is achieved throughout the mix. Do not overwater as this will lower the strength and may cause cracking and/or pin holing.
6. To avoid segregation and over watering during installation, the water settings may require adjusting. Check the product consistency to ensure a uniform distribution of the aggregates during pumping. The conditions that can affect the overall performance are, but not limited to, length of hose, water temperature, water pressure, substrate, ambient air temperature and powder temperature.

Pump Mixing (cont.)

7. On the end of the hose attach a mesh-screen sock to trap any foreign or unmixed material.
8. Always test pump using the actual maximum hose length and conditions before installation to ensure proper application and appearance is achieved.

Application

Apply when air and substrate temperatures are between 40°F (4°C) and 100°F (38°C) within 24 hours of application. For applications outside this range of temperatures, contact ProSpec® Technical Services.

1. Close all windows, doors and HVAC vents to minimize air flow.
2. Divide the areas to permit continuous placement without cold joints.
3. Pour or pump the blended Level Set® Deep Pour 3 onto the floor and disperse with a gauge rake followed by smoothing the material with a surface smoother. Use cleated shoes to avoid leaving marks.
4. To prevent ridges between batches, use a smoother tool and work a narrow dimension. Optimum results can be obtained by providing a continuous wet flow throughout the placement.
5. Level Set® Deep Pour 3 has a working time 25 - 35 minutes at 70°F (21°C). Temperature and humidity will affect flow, working time and set time.
6. Outgassing can occur when applying multiple lifts.
7. If capping is required contact ProSpec® Technical Services.

Note: When vinyl, wood or other types of floor coverings are to be installed over ProSpec® Level Set® Deep Pour 3, the requirements of the floor covering manufacturer are to be followed with respect to, but not limited to, levels of moisture.

Refer to:

RFCI (Resilient Floor Covering Institute publication) MRP: [Addressing Moisture Related Problems Relevant to Resilient Floor Coverings Installed Over Concrete](#)

NOFMA (National Oak Flooring Institute) publication: [Installing Hardwood Flooring, Rev. 3/10/98](#)

TCNA (Tile Council of North America) Handbook: [Ceramic Tile Installation](#)

American National Standard Specifications: [Installation of Ceramic Tile](#)

Note: ProSpec® Level Set® Deep Pour 3 will not correct or compensate for a structurally defective substrate. Faults in the substrate can appear in the underlayment. The use of alkali resistant glass fabric or galvanized metal reinforcing (Federal Specification QQL 101C) can be helpful in reducing reflective cracking.

Curing

- Protect from excessive drying due to temperature, air movement and direct sunlight.
- The use of damp curing or the use of curing compounds is not recommended.
- Turn off all forced air ventilation and radiant heating systems whenever possible for up to 24 hours after installation.

Note: Level Set® Deep Pour 3 is not a wearing surface and should be protected from construction trade traffic until the final floor covering is applied.

Cleaning

Use clean potable water to clean all tools immediately after use.

Limitations

- Do not use on exterior surfaces.
- Do not trowel.
- Do not use as a wearing surface. For a wearing surface, use ProSpec® Level Set® Wear Topping.
- Do not overwater, retemper or add additional additives.
- Do not use dissimilar underlayments and toppings.
- Do not install over dimensionally unstable substrates such as gypsum, gypsum-based patching compounds, particle board, luan, asbestos or chip board.
- Do not allow heavy or sharp metal objects to be dragged directly across the Level Set® Deep Pour 3 surface.

Coverage

Gray: 50 lb (22.7 kg) bag

Nominal Thickness	Approximate Coverage
3/8" (9 mm)	15 ft ² (1.39 m ²)
1/2" (13 mm)	11 ft ² (1.02 m ²)
1" (25 mm)	5.5 ft ² (0.51 m ²)
2" (51 mm)	2.8 ft ² (0.26 m ²)
3" (76 mm)	1.8 ft ² (0.17 m ²)

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
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