



LEVEL SET DEEP POUR 3

Description

ProSpec® Level Set Deep Pour 3 is an eco-friendly Calcium Aluminate Cement (CAC), non-gypsum based, single component, non-shrink, fast setting, self-leveling underlayment that provides a flat, smooth, durable surface up to 3 inches in depth in one lift for the installation of floor finishes.

Features & Benefits

Lower alkaline binder system creates an alkali barrier from the underlying concrete when installed at ≥ 3/16" (5 mm) thick*

- Protects organic adhesives and coatings from alkali decomposition and secondary VOC emission up to 90% RH
- Compatible with epoxy, urethane and other resin-based systems**
- Contributes to better air quality
- Does not promote the growth of mold or mildew

No sanding or grinding required

- Time and labor savings; apply coatings and adhesives to finished surface

Easy to use; no troweling required

- Low in place cost

Contributes to LEED points

- Contains >20% pre-consumer recycled material

Very fluid

- Can be barrel mixed or pumped in place

Rapid Cure Technology (RCT)™

- Quick return to service
- Accepts foot traffic and tile and stone installations in 3-4 hours and moisture-sensitive floor covering in 36 to 48 hours

Expansion Stabilization Technology (EST)™

- Dimensionally stable installations (no shrinkage)

Deep pour applications from 1/8" to 3" (76 mm) in one lift

- One step installation
- Can feather edge at transitions.
- 50% to 100% greater build per lift than conventional self leveling materials

Mixes with water only

- No additional components required

* Based on independent industry reports available upon request

** Refer to resin manufacturer's technical information for specific installation recommendations

Uses

- Interior use in leveling uneven rough concrete and camber problems

* Contact ProSpec Technical Services for details.

NOTE: For other substrates, contact ProSpec Technical Services.

Technical Data

Working Time @ 70° F (21° C)

25 to 35 minutes

Set Time ASTM C 191 @ 70° F (21° C)

Initial set 80 min.

Final set 120 min.

Compressive Strength ASTM C 109 (Air Cured)

4 hours >1,200 psi (8.3 MPa)

1 day >1,600 psi (11.0 MPa)

7 days >2,100 psi (14.5 MPa)

28 days >3,500 psi (24.1 MPa)

Flammability ASTM E 648

Ignition None

Flame Propagation Distance None

Avg. Critical Radiant Flux (CRF) >1.1W/cm²

Delamination / Warpage None

NOTE: Test results obtained under controlled laboratory conditions at 72° F (22° C) and 50% relative humidity. Tested using 5 qts. (4.7 L) water per 50 lbs. of Level Set Deep Pour 3. Reasonable variations can occur due to atmospheric and job site conditions.

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Preparation

(See Substrate Preparation Bulletin)

Concrete substrates:

- Clean area and remove all unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance
- Substrates must be stable, solid and structurally sound
- After cleaning and profiling test for MVER (moisture vapor emission rate - reference ASTM F1869) and concrete substrate's relative humidity (RH) – reference ASTM F2170. See Best Performance
- Repair deep areas, holes and nonmoving cracks with ProSpec® Vinyl Concrete Patch or Floor Patch Pro prior to application and allow to cure for a minimum of 3 hours.
- Tensile strength of substrate must

be > 72 psi DTBS (ASTM C-1583)

- If < 72 psi DTBS then the substrate surface will need to be mechanically prepared, i.e. Shotblast, Scarify or Aggressive Diamond Grinding or similar to achieve a sound floor.
- Concrete that has been power troweled must be tested to verify surface strength and adhesion, i.e. DTBS.
- All surfaces require Level Set Primer (see "Priming" section)
- Tight concrete substrates and nonporous substrates require Level Set Primer Plus

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](#)
- 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](#)

Priming

- ProSpec Level Set Primer must be applied over entire substrate. Do not apply over standing water.
- For porous or highly porous substrates 2 coats of ProSpec Level Set Primer may be necessary. The dilution rate may vary from 1:1 to 1:3 (primer to water).
- If the primer turns clear in approximately 30 minutes, then additional coats are needed.
- Allow the first coat to dry before applying additional coats.
- Allow ProSpec Level Set Primer to dry completely to a tacky translucent film with no milky wet spots before installation of the Level Set Deep Pour 3. Do not bridge over existing expansion or control joints.
- If primed floor is not covered with ProSpec Level Set Deep Pour 3 within 24 hours, primer must be reapplied.
- Protect primed substrate from foot traffic and contamination by other trades.
- Install a bond breaker where vertical surfaces meet the new topping.

Mixing

(See recommended tools)

1. Mix 2 bags of Level Set Deep Pour 3 at a time. For EACH bag add 5 qts. (4.7 L) potable water into a clean mixing drum.
2. Then add the Level Set Deep Pour 3, while mixing at full speed with a paddle mixer attached to a heavy-duty 1/2" drill (max. 1,200 rpm).
3. Mix completely for a minimum of 2-3 minutes until lump free, adding no additional water.
4. It is recommended that two (2) Level Set mixing drums be used simultaneously to allow for a smooth, continuous installation.

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Placement

- Pour the blended ProSpec Level Set Deep Pour 3 on the floor and disperse with the Level Set Spreader (Gauge Rake) followed by smoothing the material with the Level Set Smoother. Cleated shoes must be worn to avoid leaving marks.
- Level Set Deep Pour 3 will level itself for 20 minutes at 70° F (21° C). No troweling needed.
- After use clean all mixing equipment thoroughly to avoid getting hardened product into subsequent batches.
- Level Set Deep Pour 3 can also be pumped affording high productivity and continuous smooth placement.

- Over watering or over mixing will affect strength, abrasion resistance and may cause cracking, surface dusting, or pinholing.

NOTE: All applications require the use of ProSpec LEVEL SET PRIMER prior to the placement of Level Set Deep Pour 3. Floor preparation is crucial in obtaining a successful underlayment installation. The contractor is responsible for ensuring the substrate is properly prepared prior to the application of ProSpec Level Set Deep Pour 3. A test application is recommended.

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](#)
- TCA (Tile Council of North America) Handbook for Ceramic Tile Installation
- American National Standard Specifications for the 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 direct sunlight, excessive drying due to elevated temperatures and air movement.

Clean Up

Use water to clean all tools immediately after use.

Tools

The following tools will ensure a satisfactory Level Set Deep Pour 3 installation. Call ProSpec for details.

- Level Set Mixing Drum
- Level Set Mixing Paddle
- Level Set Measuring Pails
- Level Set Depth Gauge Spreader
- Level Set Surface Smoother
- 1/2" Heavy-Duty Drill

Yield

Per 50 lb. (22.7 kg) bag mixed with 5 qts (4.7 L) of clean potable water yields approximately 0.50 cu ft.

Coverage

Per 50 lb. (22.7 kg) bag

Nominal Thickness	Approximate Coverage	Nominal Thickness	Approximate Coverage
1/8" (3 mm)	Up to 48 ft ² (4.46 m ²)	1" (25 mm)	Up to 6 ft ² (0.56 m ²)
1/4" (6 mm)	Up to 24 ft ² (2.23 m ²)	1.5" (38 mm)	Up to 4 ft ² (0.37 m ²)
1/2" (12 mm)	Up to 12 ft ² (1.11 m ²)	2" (51 mm)	Up to 3 ft ² (0.28 m ²)
		3" (76 mm)	Up to 2 ft ² (0.19 m ²)



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Packaging

50 lb. (22.7 kg) moisture resistant bags

Storage

Always keep in cool/dry place unexposed to sunlight and tightly reseal container. Prevent Level Set Primers from freezing.

Shelf Life

One year when stored properly in original unopened container.

Best Performance

- For interior use only
- Apply when air or substrate temperature is between 45° F (7° C) and 100° F (38° C) within 24 hours of application
- Do not install when the substrate surface bond strength is <72 psi (0.5 MPa)
- Not a wearing surface; must be covered with flooring. For a wearing surface use ProSpec Level Set Wear Topping
- It is recommended that two mixing drums be used simultaneously, mixing one while pouring the other
- Do not over water, retemper, or add additional additives
- Overwatering the material will result in a black film rising to the surface during application process
- Always install a test area, insuring suitability of Level Set Deep Pour 3 for intended use
- Rely upon floor covering manufacturer for directions concerning maximum allowable moisture content of sub-floor, adhesive selection etc.
- For applications over 3" use Level Set Deep Pour 5.

Caution

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. WARNING!

Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact,

flush thoroughly with water. The wearing of gloves and safety goggles is recommended.

In case of eye contact, flood eyes with potable water and call physician. DO NOT RUB EYES.

Do not take internally. Crystalline silica sand may cause serious lung problems. Avoid breathing dust and wear a respirator in dusty areas. Consult Material Safety Data Sheet for further information.

First Aid

Inhalation: Remove to fresh air.

Eye Contact: Irrigate eye with water or consult physician if irritation persists.

Skin Contact: Washed exposed skin area with soap and water; consult a physician if irritation persists.

Ingestion: Immediately consult a physician.

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.

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