



Level Set® Deep Pour 3 Self-Leveling Underlayment

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1. PRODUCT NAME

TEC® Level Set® Deep Pour 3 Self-Leveling Underlayment (003)

2. MANUFACTURER

TEC Specialty Products LLC
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
800.552.6225 Office
800.832.9023 Technical Support
800.952.2368 Fax
tecspecialty.com

3. DESCRIPTION

Level Set Deep Pour 3 is ideal for thick-build applications. It is a calcium aluminate based, self-leveling underlayment that provides a flat, smooth, durable surface up to 3" (76 mm) in one lift.

Key Features and Benefits

- Single pour thickness from 3/8" (9 mm) up to 3" (76 mm) neat
- Pumpable or pourable
- Walkable in 3-4 hours
- Provides a smooth surface
- Accepts non-moisture sensitive tile and stone in 4 hours
- Install moisture sensitive floor covering in 36-48 hours
- Contributes to LEED® project points
- Zero VOC

Packaging

50 lb. moisture-resistant bags (22.68 kg)

Product #15036062

Coverage

Coverages shown are approximate. Actual coverages may vary according to substrate conditions and thickness of applications.

Application Depth	Approximate Weight in Pounds per Square Foot (kg/m ²)	Approximate Coverage per 50 lbs. (22.68 kg)
3/8" (9 mm)	3.5-4.0 (17.1-19.5)	15 sq. ft. (1.39 m ²)
1/2" (12 mm)	4.6-5.3 (22.5-25.9)	11 sq. ft. (1.02 m ²)
1" (25 mm)	9.1-10.5 (44.4-51.3)	5.5 sq. ft. (0.51 m ²)
2" (50 mm)	18.2-21.0 (88.8-102.6)	2.8 sq. ft. (0.26 m ²)
3" (76 mm)	27.3-31.9 (133.3-155.7)	1.8 sq. ft. (0.17 m ²)

Suitable Substrates

When properly prepared, suitable substrates include:

- Concrete
- Ceramic or quarry tile (well-bonded)
- Gypsum substrates (properly primed) with minimum tensile bond strength 72 psi (0.5 MPa)
- Exterior grade plywood (with reinforcement lath)
- Oriented Strand Board (OSB) (with reinforcement lath)

Substrate Preparation (In accordance with ASTM F710)

All materials should be stored at 50°F (10°C) to 90°F (32°C) 24 hours prior to installation. It is required that all surfaces be structurally sound and free from any contaminants that may inhibit bond, including oil, grease, dust, loose or peeling paint, sealers, floor finishes, curing compounds or contaminants. Minimum tensile bond strength of 72 psi (0.5 MPa) is required. Substrate temperature should be a minimum of 43°F (6°C) and air temperature maintained above 50°F (10°C). DO NOT cover existing building expansion joints, isolation joints or any crack or joint subject to movement. Provide control joints where specified. Create a minimum of 1/8" to 1/4" (3-6 mm) wide gap where Level Set Deep Pour 3 Self Leveling Underlayment abuts walls, columns, and fixtures by installing a self-sticking foam such as weather stripping tape or damp sand (vacuum up sand after self-leveling underlayment has cured). **Surfaces must be primed with TEC® Multipurpose Primer prior to installation of Level Set Deep Pour 3.** See Primer label for application instructions. Level Set Deep Pour 3 can be installed over green concrete with RH of 99% or less. For moisture sensitive floor coverings refer to the finished floor manufacturer's specifications on moisture limitations. **Remediation of excessive moisture conditions must be addressed prior to the installation of Level Set Deep Pour 3.** This product is not a moisture vapor barrier. If substrate moisture content exceeds the maximum allowed by the flooring manufacturer, then moisture mitigation must be applied prior to application of Level Set Deep Pour 3. To reduce moisture vapor emissions to an acceptable level, use TEC® LiquiDam™ Penetrating Moisture Vapor Barrier or LiquiDam EZ™ Moisture Vapor Barrier (see product data sheets for details). **For installation over adhesive (except for tacky and pressure sensitive adhesive), remove adhesive by scraping (mechanical removal, DO NOT use chemical adhesive removers) until all that remains is a thin transparent layer of adhesive residue.**

For single layer of Exterior Grade Plywood or Oriented Strand Board (OSB) with Lath, wood sub-flooring must be securely fastened with screw type or ring shank nails and adhesive. Then prime the floor. Allow primer to dry to a clear film. Next, staple 1/4" (6 mm) galvanized diamond metal or plastic lath to the floor overlapping at seams. Maximum Level Set Deep Pour 3 thickness is 3" (76 mm). Wood sub-flooring must be securely fastened with screw type or ring shank nails and adhesive. Installations of exterior grade plywood or OSB (APA Rated Sturd-I-Floor OSB, Exposure 1 or better) require 3/4" (19 mm) single layer minimum thickness on bridged floor joists up to 24" (60 cm) on center, with a maximum deflection of 1/360 of the span. Allow a gap of 1/8" to 1/4" (3-6 mm) between sheets of plywood or OSB. Long edges of subfloor must be tongue and groove or supported by bridging between floor joists.

Use suitable TEC surface preparation products (Feather Edge Skim Coat, VersaPatch®, Fast-Set Deep Patch) to plug all floor openings, gaps, and cracks and install termination dams to prevent any seepage. Prime the floor and allow it to dry to a clear film. Next, staple 1/4" (6 mm) galvanized diamond metal or plastic lath to the floor overlapping 2" (5 cm) at seams. Staple every 6" (15 cm) around the perimeter and overlaps, and every 8" (20 cm) in the field of the lath. Install Level Set Deep Pour 3 based upon the joist spacing shown in the table below:

Joist Spacing (o.c.)	Minimum SLU thickness with lath over single layer 3/4" (19 mm) tongue and groove subfloor	Minimum SLU thickness with lath over single layer 5/8" (15 mm) tongue and groove subfloor
16" or less (40 cm or less)	3/8" (9 mm)	1/2" (12 mm)
20" or less (50 cm or less)	1/2" (12 mm)	5/8" (15 mm)
24" or less (60 cm or less)	5/8" (15 mm)	3/4" (19 mm)

Product Data

Storage

Store in a cool, dry area away from direct sunlight. Do not store open containers.

Shelf Life

Maximum 1 year from date of manufacture in properly stored, unopened package.

Limitations

- For interior use only.
- Do not apply when the temperature is below 50°F (10°C).
- Not for use in conditions of hydrostatic pressure or excessive moisture.
- Do not pour at depths lower than 3/8" (9mm)
- Do not apply over sealed concrete, strip wood flooring, tempered hardboard (e.g. Masonite), particle board or lauan plywood.
- Level Set Deep Pour 3 is not a wear surface and should be protected from construction trade traffic until the final floor covering is applied.

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 TEC brand product(s) under normal environmental and working conditions. Because each project is different, TEC Specialty Products LLC cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

4. TECHNICAL DATA

Level Set Deep Pour 3 Self-Leveling Underlayment (003)	
Description	Typical Results
28 Day Compressive Strength	>3500 psi (24.13 MPa)
28 Day Flexural Strength	>700 psi (4.83 MPa)
28 Day Shrinkage	<0.07%

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

Physical Properties

Description	
Physical State	Dry powder
Color	Gray
Working Time	25-35 minutes*
Walkable	3-4 hours*
Flooring Installation	Tile: 4 hours* Moisture sensitive: 36-48 hours*
Flow (ASTM C1708)	5"-6" (12.7-15.2 cm)*
Storage	Store in a cool, dry area away from direct sunlight. Do not store open containers.
Shelf Life	Maximum 1 year from date of manufacture in properly stored, unopened package.

*Temperature and humidity will affect flow, working time and set time.

5. INSTALLATION INSTRUCTIONS

Mixing

Mix 2 bags of Level Set Deep Pour 3 at a time. In a clean appropriate sized container add 5 qts. (4.7 L) of clean, cool potable water for **EACH** 50 lb. (22.68 kg) bag. Next add the Level Set Deep Pour 3, while mixing at full speed using a mixing blade suitable for the mixing container shape attached to a heavy-duty 1/2" (12 mm) drill (minimum 650 rpm). Do not add extra water. Mix completely for a minimum of 2 minutes until lump free, adding no additional water. Do not over mix or move 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 overwatering. 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. **Use full bags only.**

For applications utilizing a pumping system: 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 qts. (4.7 L) clean potable water to **EACH** 50 lb. (22.68 kg) bag of powder. The minimum required hose length is 100 ft. (30.5 m) for In-Line Mixers. Do not use for pumping applications that have a horizontal hose length of 300 ft. (91.4 m) and/or a vertical hose length of 40 ft. (12.2 m).

Before starting, ensure the mixer and pumps are completely clean and in good working order. Refer to the equipment manufacturer's instructions for specific maintenance and cleaning. 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. To avoid segregation and overwatering 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. On the end of the hose, attach a mesh-screen sock to trap any foreign or unmixed material. 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 temperature is between 50°F (10°C) and 90°F (32°C) within 24 hours of application. Close all windows, doors and HVAC vents to minimize air flow. Divide the areas to permit continuous placement without cold joints. Pour or pump the blended Level Set Deep Pour 3 onto the floor and disperse with a gauge rake. Use cleated shoes to avoid leaving marks. If pumping, test the mixed material periodically from the pump to ensure suitable mix and flow prior to general application. To prevent ridges between batches, use a smoother and work a narrower dimension. Optimum results can be obtained by providing a continuous wet flow throughout the placement. 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.** It is the sole responsibility of the installer to determine the suitability and compatibility of the Level Set Deep Pour 3.

NOTE: For applications utilizing a pump system, please contact TEC Technical Service, as noted below.

When vinyl, wood or other types of floor coverings are to be installed over 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.

Curing

Protect from excessive drying due to temperature, air movement and direct sunlight. Turn off all HVAC systems whenever possible for up to 24 hours after installation.

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

Multiple lifts: For installations using multiple lifts of self-leveling underlayment, the first lift should be allowed to cure until walkable. Application of two coats of primer are required prior to the second lift as outlined on the Multipurpose Primer product data sheet with the first coat being 1:3 primer to water, and the second coat being 1:2 primer to water.

Clean-up

While material is still fresh, clean tools, hands and equipment with warm soapy water.

6. AVAILABILITY

TEC premium surface preparation, tile, stone, carpet, wood and resilient floor covering installation products are available nationwide. To locate TEC products in your area, please contact:

Phone: 800-832-9002
Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. **TEC Specialty Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product.** For Limited Warranty details visit tecspecialty.com. To obtain a hard copy of the Limited Warranty call TEC Specialty Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

Divisions 3 and 9



Conforms with LEED v4 low emitting interiors.
Compliant with (CDPH) Standard Method v1.2 VOC Emissions.



To learn more, visit TECSpecialty.com



TEC Specialty Products LLC | 1105 South Frontenac Street, Aurora, IL 60504-6451



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