

LEVEL SET LW-60

Description

ProSpec[®] Level Set LW-60 is a single component underlayment that provides a flat, smooth, durable floor without the weight of a normal portland cement or gypsum underlayment.

Features

- Lightweight
- 50% lighter than both conventional cement and gypsum based systems
- Ideal for projects where load bearing restrictions apply
- Low in place cost – easy to use
- No troweling required – self leveling
- Fast setting
- Rapid early strength gain
- Very fluid, ideal for pouring and pumping
- Applications from feather edge to 2" (51 mm) thick per lift
- Mixes with water only
- Accepts foot traffic and tile and stone installations in 3-4 hours and moisture-sensitive floor coverings in 16 hours
- Dimensionally stable / no dusting
- Superior bond
- Maintains workability for 30 minutes at 70° F (21° C)
- Non-gypsum based
- No sanding or grinding
- Adhesive compatible
- One coat application provides smooth surface, reducing cost of products requiring a second coat

Uses

- Interior use for leveling uneven, rough concrete, camber problems, plywood floors
- In restoration projects use over ceramic tile, terrazzo and wood to provide a smooth even finish

Technical Data

Density

Approx. 60 lbs./ft³ (961 kg/m³)

Working Time @ 70° F (21° C)

30 minutes

Set Time ASTM C 191 @ 70° F (21° C)

Initial set 60 to 90 min.

Final set 90 to 120 min.

Compressive Strength ASTM C 109 (Air Cured)

4 hours 1,000 psi (6.9 MPa)

1 day 2,000 psi (13.8 MPa)

7 days 3,000 psi (20.7 MPa)

28 days 4,000 psi (27.6 MPa)

Test results obtained under controlled laboratory conditions. Reasonable variations can occur due to atmospheric and job site conditions.

NOTE: Typical portland cement underlayments 125 lbs./ft³ (2002 kg/m³) or typical gypsum underlayments 110 lbs./ft³ (1762 kg/m³)

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Preparation	Refer to
<p>(See Substrate Preparation Bulletin)</p> <p>For concrete substrates:</p> <ol style="list-style-type: none"> 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 The concrete surface must be mechanically profiled by shotblasting, sand blasting or scarifying to achieve a CSP 3 to CSP 5 standard. After cleaning and profiling test for MVER (moisture vapor emission rate - reference ASTM F1869) see Best Performance Repair deep areas, holes and nonmoving cracks with ProSpec[®] Vinyl Concrete Patcher or Floor Patch prior to application and allow to cure for a minimum of 3 hours. <p>For residential use over interior wood floors that are structurally sound and not subject to moisture:</p> <p>Best Performance:</p> <ul style="list-style-type: none"> Residential installations only, 3/4" (19 mm) min. mortar thickness for areas up to 100 ft² (9.3 m²); 1 1/4" (32 mm) min. mortar thickness for areas greater than 100 ft² (9.3 m²) <p>Requirements:</p> <ul style="list-style-type: none"> Cleavage membrane 2.5 lbs./yd² metal lathe (min.), nailed with 1" (25 mm) hot dipped galvanized ribbed roofing nails or stapled with 1" (25 mm) crown galvanized staples 	<ul style="list-style-type: none"> ASTM D 4259 <u>Abrading Concrete</u> ACI 201.1R <u>Guide for Making a Conditions Survey of Concrete in Service</u> ACI 224.1R93 <u>Causes and Repair of Cracks in Concrete Structure</u> ICRI 03732 <u>Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays</u> <p>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.</p>
<ol style="list-style-type: none"> ProSpec Level Set Primer must be applied over entire substrate. Do not apply over standing water. Allow ProSpec Level Set Primer to dry completely to a tacky translucent film with no milky wet spots before installation of the underlayment. Do not bridge over existing expansion or control joints. 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). 	<ul style="list-style-type: none"> Design floor areas over which tile is to be applied to have a deflection not greater than 1/360 of the span. Make allowance for live load and impact as well as dead load, including weight of the tile and setting bed. Tape or caulk all plywood seams. Surfaces must be mechanically abraded until a "profile" is obtained for the maximum bonding of Level Set LW-60. Wet mop the floor removing all debris, dust and loose material prior to installing the primer
	<p>Non-Porous Substrates:</p> <ul style="list-style-type: none"> Ceramic tile, terrazzo, quarry tile and stone must be solid, well bonded, clean and free of any bond breaking contaminants such as glazes, wax, oil, sealers etc.

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Priming

Concrete:

- All substrates must be clean, dry and primed before Level Set LW Topping is applied. Subfloor temperature must be at least 40° F (4° C). One gallon (3.8 L) of ProSpec Level Set Primer mixed with one gallon of clean potable water will cover approximately 350-400 ft² (32.5-37.2 m²) of floor area.

- Primer must be applied evenly with a nylon push broom with exploded tips. Do Not use paint rollers, mops, or spray equipment. Apply a thin primer layer leaving no bare spots, puddles or excess primer. Allow to dry to a clear, thin film (usually 3 hours, but less than 24 hours). To avoid the development of bubbles and pin holes in the Level Set LW-60, very absorbent concrete, such as abraded floors, may require two applications of Level Set Primer.

- Apply the first coat of Level Set Primer diluted with 3 parts water, let completely dry (minimum 3 hours) and install a second application of Primer mixed 1:1 with water. Let dry, then apply Level Set LW-60.

NOTE: Low subfloor temperatures, or high humidity will slow primer drying. Never place Level Set LW-60 until the primer is COMPLETELY dry.

Mixing

(See recommended tools)

- Mix 2 bags of Level Set LW-60 at a time. For EACH 25 lb. (11.3 kg) bag add 6 qts. (5.76 L) clean potable water into a clean mixing drum.
- Then add the Level Set LW-60 bags, while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" (13 mm) drill (min. 650 rpm).
- Mix completely for a minimum of 2-3 minutes until lump free, adding no additional water.
- Level Set LW-60 will level itself for 20 minutes at 70° F (21° C) no troweling needed. Pour the blended Level Set LW-60 on the floor and disperse with the Level Set spreader, followed by smoothing the material with the Level Set smoother. Cleated shoes must be worn to avoid leaving marks.
- It is recommended that two (2) Level Set mixing drums be used simultaneously, mixing in one while pouring the other. This way there is no job slow down while still mixing for the required 2-3 minutes.
- After use clean all mixing equipment thoroughly to avoid getting hardened product into subsequent batches.
- Level Set LW-60 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 or pinholing.

Tools

The following tools will assure a cost effective, satisfactory Level Set LW-60 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

Coverage

Per 25 lb. (11.3 kg) bag

Nominal Thickness	Approximate Coverage
1/4" (6 mm)	25-30 ft ² (2.8 m ²)
1/2" (12 mm)	12-15 ft ² (1.4 m ²)

LEVEL SET LW-60

Packaging

25 lb. (11.3 kg) moisture resistant bags

Storage

Always keeps in cool/dry place unexposed to sunlight and tightly reseal container. Prevent the 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 40° F (4° C) and 100° F (38° C) within 24 hours of application
- Use Level Set G over gypsum based surfaces
- Not a wearing surface. Must be covered with flooring or an overlay topping of ProSpec Level Set Wear Topping
- Do not over water, retemper, or add additional additives
- Always install a test area, insuring suitability of Level Set for intended use
- Rely upon floor covering manufacturer for directions concerning maximum allowable moisture content of subfloor, adhesive selection etc.
- It is recommended that two mixing drums be used simultaneously, mixing one while pouring the other
- Non-porous substrates require the use of Level Set Primer Plus

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.

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