



## LEVEL SET G

### Preparation (cont'd)

- Repair deep areas, holes and nonmoving cracks with ProSpec<sup>®</sup> Vinyl Concrete Patcher, Floor Patch or prior to application and allow to cure for a minimum of 3 hours.
- 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).

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.

### Priming

#### Concrete or gypsum:

- All substrates must be clean, dry and primed before Level Set G 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 sq. ft. (33-37 sq. m) 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 G, very absorbent substrates, 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 G.

**For residential use over interior wood floors that are structurally sound and not subject to moisture:**

#### Best Performance:

- Residential installations only, ¾" (19 mm) min. mortar thickness for areas up to 100 ft<sup>2</sup> (9.3 m<sup>2</sup>); 1 ¼" (32 mm) min. mortar

thickness for areas greater than 100 ft<sup>2</sup> (9.3 m<sup>2</sup>)

#### Requirements:

- Cleavage membrane
- 2.5 lbs./yd<sup>2</sup> metal lathe (min.), nailed with 1" (25 mm) hot dipped galvanized ribbed roofing nails or stapled with 1" (25 mm) crown galvanized staples
- 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.

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

### Mixing and Placement

- Mix 2-bags of Level Set G at a time. For EACH bag add 5 qts. (4.75 L) clean potable water into a clean mixing drum. Then add the Level Set G bags, while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" drill (min. 650 r.p.m.). Mix completely for a minimum of 2-3 minutes until lump free, adding no additional water.
- Level Set G will level itself for 10 minutes at 70° F (21° C) no troweling needed. Pour the blended Level Set G 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.
- After use clean all mixing equipment thoroughly to avoid getting hardened product into subsequent batches.
- Level Set G can also be pumped affording high productivity and continuous smooth placement.

# LEVEL SET G

## Placement (cont'd)

### As repair material:

- Remediation may include patching and/or skim coating the existing gypsum surface. Since after removing all dust old gypsum surfaces maybe soft, it is necessary to prime the surface as well as all edges of the existing gypsum prior to installing Level Set G.

### Increased thickness:

1. Level Set G can be applied from a 1/8" to 2" (3 to 51 mm) without extension with aggregate, and up to 5" (127 mm) extended. To extend, blend the Level Set G with washed, dried, clean 3/8" (10 mm) pea gravel.
2. Mix Level Set G first with water, then add 15 lbs. (6.8 kg) of the aggregate mixing until the pea gravel is coated, then place.

3. Be aware that wet aggregate may cause over watering and the addition of aggregate will reduce the workability and may necessitate a finish coat.
4. Allow the extended layer to dry, normally 16-18 hours. Prime the surface with Level Set Primer mixed 1:1 with water per the priming instructions outlined. When this primer is completely dry, install the smooth unextended finish layer.

NOTE: All applications require the use of a ProSpec Level Set Primer prior to the placement of Level Set G. Floor preparation is crucial in obtaining a successful underlayment installation. The contractor is responsible for ensuring the substrate is properly prepared prior to application of ProSpec Level Set G. Level Set G is a gypsum based product and is recommended for use as a self-leveling underlayment or repair product for existing in place gypsum based sub-floors. Where able to COMPLETELY remove the existing gypsum subfloor, the use of Level Set 300 is recommended. (Refer to Level Set 300 Data Sheet).

## 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 G 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.

## Clean Up

Use water to clean all tools immediately after use.

## Curing and Covering

Level Set G is self curing. The application of curing compounds is not required. Accepts foot traffic and tile and stone installations in 3-4 hours at 70° F (21° C) and relative humidity of 50%. The Level Set G must be dry prior to moisture-sensitive floor covering installation. This is dependent upon installation thickness, temperatures, and humidity. Drying time may vary from 48 hours to 7 days.

Moisture Content Test: Cover a 2' X 2' surface area with a sheet of at least 4 mil. thick plastic, duct taping all edges to the Level Set G. After 24 hours, remove the plastic. If the 2' X 2' area is darkened, additional drying time is needed. Repeat test until no darkness is present. After the Level Set G is dry, a thin application of Level Set Primer diluted 1:3 with potable water is recommended. After this is completely dry, the adhesive can be applied extending its working time.

## Tools

The following tools will assure a cost effective, satisfactory Level Set 200 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

# LEVEL SET G

## Coverage

Per 50 lb. (22.7 kg) bag:

Nominal Thickness	Approximate Coverage
1/8" (3 mm)	48 ft <sup>2</sup> (4 m <sup>2</sup> )
1/4" (6 mm)	24 ft <sup>2</sup> (2 m <sup>2</sup> )
1/2" (12 mm)	12 ft <sup>2</sup> (1 m <sup>2</sup> )

## Packaging

50 lb. (22.7 kg) moisture resistant bags

## Storage

Always keep 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)
- Not a wearing surface, must be covered with flooring
- Do not over water, retemper, or add additional additives
- It is recommended that two mixing drums be used simultaneously, mixing one while pouring the other
- Always install a test area, insuring suitability of Level Set G for intended use
- Rely upon floor covering manufacturer for directions concerning maximum allowable moisture content of subfloor, adhesive selection etc.

## 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. Product demonstrations are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. This Warranty constitutes the sole warranty given by Bonsal American in connection with this product. No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal American. Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.