

LEVELROCK[®] Brand Floor Underlayment PROFLOW

Premium poured gypsum flooring underlayment products

- Fast application, fast setting allows for return of light trade traffic within hours
- Industry's highest compressive strength gypsum floor underlayment
- Ideal for commercial, institutional, and renovation construction
- Self-leveling gypsum system speeds up production and provides smooth crack-resistant surface
- Applied by USG licensed contractors

System Description

LEVELROCK[®] Brand Floor Underlayment PROFLOW is the industry's premium gypsum cement designed by USG for use as a underlayment in commercial, institutional, and rehab construction. It provides a smooth, hard underlayment surface over concrete slabs, pre-stressed concrete or concrete planks at thicknesses from featheredge to 1 inch thickness. It is suitable for a variety of floor coverings. LEVELROCK Brand Floor Underlayment PROFLOW exceeds commercial vinyl floor covering requirements as a high-performing underlayment with compressive strengths exceeding 6000 psi. Quick set times and high production rates allow for traffic within hours of installation. Exceptional surface hardness of LEVELROCK Brand Floor Underlayment PROFLOW resists indentation.

Product Description

LEVELROCK Brand Floor Underlayment PROFLOW is a poured gypsum underlayment product that is blended with sand at the factory and mixed with water at the jobsite to yield a lightweight, truly self-leveling slurry. A 1/2-inch thick gypsum underlayment weighs approximately 5.4 pounds per square foot and has a density of only 130 pounds per cubic foot.

System Benefits

LEVELROCK Brand Floor Underlayment PROFLOW provides an economical way to achieve lightweight, self-leveling floors in commercial and institutional construction. Application over concrete floors eliminates costly preparation methods. Typical applications are less labor intensive than many other types of construction. Higher compressive strengths minimize floor damage from trades and allow underlayment to be uncovered during construction. High compressive strengths at low thickness provides the answer to flooring problems.

Blending with sand at the factory reduces job variables, resulting in high quality installations.

Physical Properties

Typical Compressive Strength (aggregated) ASTM C472	6000-8000 psi
Density (aggregated)	130 lb./cu.ft.

Limitations

LEVELROCK Brand Floor Underlayment PROFLOW should not:

1. Be installed where continuous exposure to moisture is a possibility (for instance, exterior balconies or shower rooms). In bathrooms, kitchens, and other areas subject to moisture intrusion, protective floor finish materials such as vinyl or ceramic tile must be applied over the gypsum floor underlayment system. (For further information see USG Technical Bulletin.)
2. Be installed in below-grade applications.
3. Exceed 1-inch thickness.
4. Be used by itself as a wear surface.

Installation

During the entire installation process, the building must be enclosed and temperature maintained at 50 °F minimum until permanent heating is available. Adequate ventilation must be provided to ensure uniform drying of the installed gypsum floor underlayment, which typically occurs within two to seven days at 1/2-inch thickness. Limit design of the subfloor and framing to a minimum of L/360 to prevent undue stress from occurring in the floor fill material, as this stress may produce cracks. The application of LEVELROCK Brand Primer to the subfloor is necessary to provide maximum bond between the underlayment and the subfloor. Concrete slabs that are receiving gypsum underlayment systems must be properly cured (generally for a minimum of 28 days) prior to the underlayment installation. Concrete slabs should be properly treated with LEVELROCK Brand Primer according to manufacturer's recommendations.

Note: If applied over plywood or OSB subfloors, contact a USG representative for approved methods.



Specifications	Note to Architect	These are specifications for the installation of LEVELROCK Brand Floor Underlayment PROFLOW covering normal project requirements. For additional data regarding special conditions and applications, please contact your local USG representative.
Part 1: General	1.1 Scope	Specify to meet project requirements.
	1.2 Qualifications	All materials, unless otherwise indicated, shall be manufactured by the United States Gypsum Company and shall be installed in accordance with its current printed directions by USG licensed LEVELROCK Brand applicators.
	1.3 Delivery and Storage of Materials	All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure from the elements. Damaged or deteriorated materials shall be removed from the premises.
	1.4 Site Conditions	Before, during, and after installation of product, building interior shall be enclosed and maintained at a temperature above 50 °F (10 °C)
Part 2: Mixing	2.1 Products	<ul style="list-style-type: none"> A. Gypsum Cement—LEVELROCK Brand Floor Underlayment PROFLOW. B. Primer—LEVELROCK Brand Primer. C. Water—Potable, free from impurities. D. Sealer—LEVELROCK Brand Floor Underlayment TOPSEAL.
	2.2 Mixing Proportions	Add 1.5 to 1.6 gallons of water, one 80 lb. bag of LEVELROCK Brand Floor Underlayment PROFLOW. Use only 1.1 to 1.2 gallons of water for the 60 lb. bag. Do not over water, as it will greatly impact product performance.
Part 3: Execution	3.1 Preparation	<ul style="list-style-type: none"> A. Subfloor shall be structurally sound. Contractor shall clean subfloor to remove mud, oil, grease, and other contaminating factors before arrival of the underlayment crew. Check that substrates are dry and clean. Use LEVELROCK Brand Primer over approved subfloor as specified by manufacturer. Apply leak prevention material to cracks and voids. (Set temporary dams as required.)
	3.2 Application of LEVELROCK Brand Floor Underlayment PROFLOW	<ul style="list-style-type: none"> A. Application shall not begin until the building is enclosed, including roof, windows and doors. B. Place floor topping, 1-inch maximum thickness over plank or poured in place concrete. Immediately spread and screed product to a smooth surface. Except at authorized joints, place product as continuously as possible until application is complete so that no slurry is placed against product that has obtained its initial set. C. General contractor shall provide continuous ventilation and adequate heat to rapidly remove moisture from the area until the cementitious underlayment is dry.
	3.3 Preparation for Installation of Glue Down Floor Goods or Floor Coating	<ul style="list-style-type: none"> A. Floor must be dry prior to installation of finished floor or application of floor coatings. Check dryness by taping a 24" x 24" section of plastic and checking for condensation after 48 hours. B. After the floor has dried, use manufacturer approved sealer to seal the cementitious underlayment prior to installation of glue down floor goods. Where floor goods manufacturers require special adhesive or installation systems, their requirements supersede these recommendations. Damaged floor areas need to be repaired prior to the flooring sealing. C. LEVELROCK Brand Floor Underlayment PROFLOW provides a finished wear surface when used with the approved coating system from Richard James Specialty Chemicals Corporation.

**3.4
Field Quality Control**

- A.** Gypsum underlayment mix shall be tested for slump as it's being pumped using a 2-inch (i.d.) x 4-inch cylinder resulting in a patty size of 10-1/2 to 11 inches.
- B.** At least one set of three (3) molded cube samples shall be taken from each day's pour or every 10,000 sq. ft. (whichever is less) during the gypsum underlayment application. Cube mold material shall brass or engineered plastic. Cubes shall be tested in accordance with modified ASTM C472.

**Submittal
Approvals:**

Job Name		
Contractor		Date

Warning

This product contains respirable crystalline silica. Prolonged, repeated breathing of respirable crystalline silica dust can cause permanent lung damage (silicosis) and/or lung cancer. Avoid exposure to dust. Use designed ventilation and dust collection systems to control dust exposures below permissible limits. Monitor employee personal breathing zone for respirable crystalline silica by NIOSH 7500 test method or equivalent. Where engineering controls are infeasible or inadequate, wear an appropriate NIOSH/MSHA-approved dust respirator to reduce exposure below the permissible level. Avoid creating dust when mixing and during clean up. DO NOT USE BROOMS OR COMPRESSED AIR TO CLEAN UP THIS PRODUCT. CLEAN UP PRODUCT WITH A HEPA-TYPE VACUUM AND/OR WATER SPRAY.

When mixed with water, this material hardens and becomes very hot—sometimes quickly. DO NOT attempt to make a case enclosing any part of the body using this material. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb.

Portland cement is strongly alkaline and can be corrosive to eyes, skin, and respiratory tract. Wear eye and skin protection. If eye contact occurs, immediately flush thoroughly with water for 15 minutes or longer and get medical attention immediately. Wear waterproof gloves and protective long sleeve work clothing for skin protection. If skin contact occurs, wash thoroughly with soap and water. If eye or skin irritation persists, get immediate medical attention. Do not ingest. If ingested, call physi-

cian immediately. Product safety information: (800) 507-8899 or www.usg.com KEEP OUT OF REACH OF CHILDREN

Trademarks

The following trademark used herein is owned by United States Gypsum Company or a related company: FIBEROCK, LEVELROCK, PROFLOW, SHEETROCK, TOPSEAL, USG.

Notice

We shall not be liable for incidental or consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instruction or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.