Submittal Sheet

Levelrock® Floor Underlayment

Proflow™

Highest strength premium poured underlayment

- One of the industry's highest compressive strengths – minimum 6000 psi
- Ideal for commercial, institutional and renovation construction
- Can be used as a decorative wear surface
- Fast application and setting times facilitate return of light trade traffic within hours
- Self-leveling system speeds production and provides a smooth, crack-resistant surface
- Applied by USG Levelrock authorized applicators

Description

Levelrock® Proflow™ floor underlayment is a premium interior cementitious underlayment that provides one of the highest compressive strengths in the industry—more than 6000 psi. Designed by USG for interior use 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 3/4 in. Suitable for use with a variety of floor coverings, including commercial-grade resilient floor coverings, Proflow floor underlayment can also be used as a decorative wear surface with an approved coating system.

Proflow floor underlayment is an economical solution for commercial and institutional floors. Typical applications are less labor intensive than many other types of construction, while the product's high compressive strength minimizes floor damage from trades. Quick set times and high production rates allow light trade traffic within 24 hours of installation. In addition, the exceptional surface hardness of Proflow floor underlayment resists indentation.

This poured underlayment is blended with sand at the factory and mixed with water at the job site to yield a lightweight, self-leveling slurry. A 1/2-in.-thick underlayment weighs approximately 5 lbs./sq. ft. and has an approximate dry density range of 113-123 lbs./cu. ft.

Limitations

1. Do not use in exterior applications.
2. Do not install where continuous exposure to moisture is a possibility (for instance, exterior balconies or large commercial/institutional shower rooms).
3. Do not install in below-grade applications.
4. Do not exceed 3/4-in. thickness.
5. Do not install directly over wood floors. Contact your local USG representative regarding proper procedures.
6. Structure shall be designed so that deflection does not exceed L/360 live or dead load. Certain floor coverings such as marble, limestone, travertine and wood may have more restrictive deflection limits. Consult the appropriate floor covering manufacturer.

Installation

Subfloors must be clean, structurally sound and dry. All loose construction debris, including joint compound, excessive dust, mud, oil and/or grease, should be removed prior to application. Use of oil-based sweeping compounds is not recommended. Shot blasting is not required.

Cracks due to building movement, if not addressed properly, will eventually telegraph through Levelrock Proflow floor underlayment. Contact your USG representative for detailed instructions. To minimize potential telegraphing from large cracks, cracks should be grouted prior to application of Levelrock Proflow floor underlayment. Adhere to the grouting manufacturer's requirements regarding when a surface may be applied over grout.

During the entire installation process, the building must be enclosed and temperature maintained at a 50 °F minimum until permanent heating is available. Adequate ventilation must be provided to ensure uniform drying of the installed underlayment, which typically occurs within 2 to 7 days at a 1/2-in. thickness. Protect floors from heavy trade traffic loads (i.e. loaded drywall carts, heavy tool cabinets, etc.) with plywood. This may cause the protected areas to take longer to dry. Check for dryness in these areas before installing floor covering. The application of Levelrock™ floor underlayment concrete primer to the subfloor is necessary to provide maximum bond between the underlayment and the subfloor.

Concrete subfloors receiving cementitious underlayment systems must be cured properly (generally for a minimum of 28 days) prior to the underlayment installation. For on- or above-grade applications on concrete subfloors or concrete planks, measure the Moisture Vapor Emission Rate (MVER) using ASTM F1869. MVER should be below 5 lbs./1000 sq. ft./24 hrs. Contact USG for further information. Concrete subfloors should be treated properly with LEVELROCK floor underlayment concrete primer, according to USG recommendations. Refer to *LEVELROCK Floor Underlayment Finished Floor Installation Guidelines* (IG1457) for floor covering installation.

PROFLOW floor underlayment can be used as a wear surface with a tested decorative coating system. Coating systems must be tested for adhesion to PROFLOW floor underlayment. The bond test and performance of other coatings is the responsibility of the coating manufacturer. Contact USG for further information regarding decorative coating options.

For further details on installation requirements, specifications and the most up-to-date product information, please see levelrock.com.

Product Data

LEVELROCK PROFLOW floor underlayment is sanded at the factory. Job site addition of sand is not recommended and will void the warranty. LEVELROCK PROFLOW floor underlayment is mixed with water to yield a lightweight, self-leveling slurry. A 1/2-in. thick underlayment weighs approximately 5 lbs./sq. ft. and has an approximate dry density range of 113-123 lbs./cu. ft.

Approximate Compressive Strength (aggregated) ASTM C472 (modified): 6000-8000 psi*

Approximate Dry Density (aggregated): 113-123 lbs./cu. ft.

Note *Compressive strengths published herein were achieved under controlled laboratory conditions. Actual field results may differ due to environmental conditions; inconsistent proportioning of field applied water and LEVELROCK floor underlayment, as well as differences in mixing/pumping equipment.

Submittal Approvals

Job Name	
Contractor	**Date**

Product Information
See levelrock.com for the most up-to-date product information.
WARNING!
When mixed with water, this material hardens and becomes very hot – sometimes quickly. DO NOT attempt to make a cast 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. Direct contact can be corrosive and cause severe damage or chemical burns to the eyes and wet or moist skin. Avoid contact with eyes and skin. Wear eye protection, alkali-resistant protective gloves, long-sleeved shirts and pants to prevent direct contact. If eye contact occurs, immediately flush thoroughly with water for 30 minutes and seek medical advice. Inhalation of dust may be corrosive or cause chemical burns or irritation to nose, throat and respiratory tract. Long-term breathing of respirable crystalline silica dust can cause permanent lung damage and/or cancer. Avoid breathing dust. Use in a well-ventilated area or provide sufficient local ventilation. If dusty, wear a NIOSH/MSHA-approved dust respirator. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call physician. Product safety information: 800 507.8899 or usg.com. **KEEP OUT OF REACH OF CHILDREN.**

Trademarks
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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.

Safety First!
Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

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IG1504/rev. 2-11