

USG DUROCK™ BRAND SELF-LEVELING UNDERLAYMENT PROFLOW™

DESCRIPTION

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® Brand authorized applicators

USG Durock™ Brand Proflow™ Self-Leveling 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 1 in. Suitable for use with a variety of floor coverings, including commercial-grade resilient floor coverings, USG Durock™ Proflow self-leveling underlayment can also be used as a decorative wear surface with an approved coating system.

USG Durock™ Proflow self-leveling 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 USG Durock™ Proflow self-leveling 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.

WARRANTY

A 10-year limited system warranty applies when using USG Durock™ Proflow self-leveling underlayment sealed with USG Durock™ X2 primer-sealer and a XL Brands® manufactured adhesive. Please contact USG for further details.

LIMITATIONS

1. Do not use in exterior applications.
2. Do not install where continuous exposure to moisture is a possibility.
3. Do not install in below-grade applications.
4. Do not exceed 1-in. thickness.
5. Do not install directly over wood floors. Contact your local USG representative regarding proper procedures.
6. Do not use over expansion or isolation joints. Continue all movement joints in the concrete slab up through the layer of underlayment. In areas where the expansion or isolation joints are not present in the floor or where the concrete slab has developed systematic cracks in response to slab movement, consult with an engineer on the project or request the services of a professional structural engineer to provide such joints as part of the system in accordance with engineering requirements and industry standards.
7. Structure shall be designed so that deflection does not exceed L/240 from combined dead and live loads and L/360 from live loads. 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 in the existing concrete subfloor must be inspected to determine if the crack is due to typical concrete "shrink" or if it is a result of a structural movement. In the case of the latter, remediation of the crack must be addressed or eventually the crack will telegraph through USG Durock™ Proflow self-leveling underlayment. Repair all existing cracks in old and new concrete to minimize and control their ability to telegraph through the layer of USG Durock™ Proflow self-leveling underlayment. Remove the weak concrete along the length of the cracks by chiseling or other suitable means. Remove accumulated dust and debris from the crack cavities using a vacuum or other suitable means. Various cracks present in the concrete subfloor including shrinkage cracks must be filled with a suitable commercially available crack-fill epoxy adhesive designed for concrete flooring applications. To ensure superior resistance to crack growth, use injection epoxy crack-repair techniques per industry guidelines to repair cracks that are active or deep. Note that repair of existing cracks in the concrete subfloor only subdues, but does not completely prevent their ability to telegraph through USG Durock™ Proflow self-leveling underlayment. Growth of existing cracks or formation of new cracks in the concrete subfloor can lead to cracks telegraphing through USG Durock™ Proflow self-leveling underlayment. Respect existing expansion and control joints (see *Limitations* #6, pg. 1).

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 5 days at a 1/4-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, stain and/or coating.

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 USG Levelrock™ Acrylic Concrete Primer, according to USG recommendations. Refer to *USG Levelrock Floor Underlayment Finished Floor Installation Guidelines* (IG1457) for floor covering installation.

To minimize the effect of expansion and cracking on outside corners, use USG Levelrock™ Perimeter Isolation Strip. See *USG Levelrock Brand Perimeter Isolation Strip Submittal* (IG1874) for further details.

USG Durock™ Proflow self-leveling underlayment can be used as a wear surface with a tested decorative coating system. Coating systems must be tested for adhesion to USG Durock™ Proflow self-leveling 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 usg.com or pourlevelrock.com.

PRODUCT DATA

USG Durock™ Proflow self-leveling underlayment is sanded at the factory. Job site addition of sand is not recommended and will void the warranty. USG Durock™ Proflow self-leveling 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 USG Durock™ Proflow self-leveling underlayment, as well as differences in mixing/pumping equipment.

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

PRODUCT INFORMATION

See usg.com or pourlevelrock.com for the most up-to-date product information.

DANGER

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. If swallowed, inhaled, or skin irritation occurs get medical attention. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of in accordance with local, state, and federal regulations. For more information call Product Safety: 800-507-8899 or see the SDS at usg.com.

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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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.

SAFETY FIRST!

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

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