



USG LEVELROCK® BRAND 2500 FLOOR UNDERLAYMENT

DESCRIPTION

Premium engineered cementitious underlayment

- Fast application, fast setting, allows for quick return of light trade traffic within hours
- Industry's highest compressive strength in class
- Ideal for wood-frame and multi-family construction
- Applied by USG Levelrock® authorized applicators
- GREENGUARD Gold Certification; qualifies as a low VOC emitting material (meets CA 01350)

USG Levelrock® Brand 2500 Floor Underlayment is a fast-applying engineered cementitious underlayment. It is formulated to provide typical compressive strengths from 2000 psi to 3200 psi at a 3/4 in. (19 mm) minimum thickness over plywood subfloors.

USG Levelrock 2500 Floor Underlayment is mixed with approved sand and potable water at the job site to yield a lightweight underlayment that weighs approximately 7.2 lbs./sq. ft. (35.2 kg/m²) at 3/4 in. (19 mm) thickness and has an approximate dry density of 115 lbs./cu. ft. (1,842 kg/m³).

INTENDED FOR

- Light-commercial, residential, hotel/motel and rehab construction
- Concrete slabs, pre-stressed concrete, concrete planks, concrete repair/leveling, existing gypsum, radiant heat systems, OSB and plywood and USG Levelrock sound attenuation products
- UL fire-rated assemblies with UL Designation Type LRK
- Floor systems with USG Levelrock sound attenuation products
- Use with a variety of floor coverings, including vinyl, carpet, hardwood, and natural and man-made stone

INSTALLATION

During the entire installation process, the building must be enclosed and temperature maintained at 50 °F (10 °C) minimum. Adequate ventilation must be provided to ensure uniform drying of the installed floor underlayment, which typically occurs within 5-7 days at a 3/4 in. (19 mm) 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.

When the MVER exceeds 5 lbs. (2.3 kg)/1,000 sq. ft. (92.9 m²)/24 hours or an RH greater than 80% per ASTM F2170, treat the concrete subfloor with an approved moisture vapor reducer. USG Levelrock Floor Underlayments are not vapor or moisture barriers. Transmission of excessive water vapor or moisture from the concrete subfloor through the floor underlayments can interfere with floor coverings and/or floor-covering adhesives, thus compromising their performance. For on-grade concrete applications, use an approved moisture vapor reducer. A moisture mitigation system may not be needed if a vapor retarder is installed below the concrete slab in accordance to industry specifications and practice (ASTM E1745, ASTM E1993, ASTM E1693) and the MVER value of the concrete slab is below 5 lbs. (2.3 kg)/1,000 sq. ft. (92.9 m²)/24 hours or has an RH less than 80% per ASTM F2170. If the concrete subfloor has been treated with an approved moisture vapor reducer, it must be primed with USG Levelrock® Acrylic Concrete Primer prior to application of the USG Levelrock 2500 Floor Underlayment.

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. Consult with the engineer on the project or request the services of a professional structural engineer for all suspected structural cracks.

Repair all non-structural cracks in old and new concrete to minimize and control their ability to telegraph. Note that repair of existing cracks in the concrete subfloor only subdues but does not completely prevent their ability to telegraph. Respect existing expansion and control joints.

INSTALLATION CONT.

USG Levelrock floor underlayments are not structural and will not resist movement in buildings. Structural movement resulting in stress to the USG Levelrock floor underlayment will cause cracking to occur.

LIMITATIONS

1. Do not use in exterior applications.
2. Do not over water or over sand.
3. Do not use as a wear surface.
4. Do not install where continuous exposure to moisture is a possibility.
5. For wood subfloors – install only on tongue-and-groove edge plywood or OSB, or square-edge wood subfloor with back-bracing.
6. Do not install in below-grade applications without a USG-approved moisture vapor reducer.
7. Do not pour 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 licensed structural engineer.
8. 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.
9. Adhere to the Radiant Panel Association (RPA) Guidelines for Hydronic Radiant Floor Heating regarding temperature and fluid temperatures. Fluid temperatures of radiant systems shall not exceed 140 °F (60 °C) at the exit of the heating device. To limit risk, floor temperatures shall not exceed 100 °F (38 °C) in general and shall be limited to 85 °F (29 °C) in areas of direct contact by building occupants. To minimize any potential of shocking the USG Levelrock 2500 Floor Underlayment, the radiant heat system should be ramped up slowly over several days until the underlayment is fully dry. Startup of radiant systems shall be in accordance with manufacturers' and RPA-recommended startup procedures.
10. Published acoustical and durability performance is based on testing USG Levelrock Floor Underlayments with USG Levelrock sound attenuation products. If USG Levelrock Floor Underlayment is installed over any non-USG Levelrock sound attenuation product, the manufacturer of the sound attenuation product shall be responsible for the acoustical and durability performance of the flooring system.
11. In areas that will be continuously exposed to wheelchair traffic, we recommend minimum 3,000 psi and 1-1/4" minimum thickness when pouring over the following mats: USG Levelrock® SAM-N12™, SAM-N12™ Ultra, SAM-N25™, SAM-N25™ Ultra, SAM-N40™, and SAM-N40™ Ultra.

PRODUCT DATA

	USG Levelrock 2500 Floor Underlayment
Approximate Compressive Strength (aggregated) ASTM C472 (modified)	2000–3200 psi (13.8–22.1 MPa)
Approximate Dry Density (aggregated)	115 lbs./cu. ft. (1,842 kg/m ³)
Set Time Range	60 - 90 minutes
Surface-Burning Characteristics ASTM E84	Flame Spread – 0 Smoke Developed – 0

NOTE Results for the properties published above were achieved under controlled laboratory conditions. Actual field results may differ due to environmental conditions, regional sand variations, inconsistent proportioning of field applied water, sand and USG Levelrock floor underlayment, as well as differences in mixing/pumping equipment.

TEST DATA

SOUND

DURABILITY

UL DESIGNATION TYPE LRK

PRODUCT INFORMATION
See usg.com for the most up-to-date product information.

GREENGUARD INFORMATION
GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

EPD & HPD INFORMATION
For Environmental and Health Product Declarations, visit usg.ecomedes.com

DANGER
Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. 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: 1-800-507-8899 or see the SDS at usg.com

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS
The trademarks USG, DUROCK, LEVELROCK, SAM-N12, SAM-N25, SAM-N40, IT'S YOUR WORLD. BUILD IT., the USG logo, the design elements and colors and related marks are trademarks of USG Corporation or its affiliates. GREENGUARD is a trademark of UL LLC.

NOTE
The information in this document is subject to change without notice. USG Corp. and/or its affiliates assume no responsibility for any errors that may inadvertently appear in this document. Consult your USG sales office or representative for information.

NOTICE
We shall not be liable for consequential, incidental or special damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to the replacement of defective goods or a refund of the purchase price, at USG's option, and does not include costs of labor, floor-covering materials, or any other costs associated with material replacement. 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. For all applicable warranty information, please refer to *USG Levelrock® Brand & USG Durock™ Brand Performance Flooring Products Two-Year Limited Warranty for USG Levelrock Applicators* (IG1727) located at usg.com. For all terms and conditions see usg.com/terms-and-conditions.

SAFETY FIRST!
Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read applicable SDSs and literature before specification and installation.



USG Levelrock floor underlayments and systems have been tested in accordance with ASTM E90 and E492. See *USG Levelrock® & USG Durock™ Sound Systems Fire & Sound Rating Guide* (IG1685) for STC and IIC results or contact your USG sales representative.

Tested per ASTM C627 *Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester*. Contact USG for further information.

L501, L502, L503, L504, L505, L506, L507, L508, L509, L510, L511, L512, L513, L514, L515, L516, L517, L518, L519, L520, L521, L522, L523, L524, L525, L526, L527, L528, L529, L530, L532, L533, L534, L535, L536, L537, L538, L539, L540, L541, L542, L543, L545, L546, L547, L549, L550, L551, L552, L556, L557, L558, L559, L562, L563, L564, L565, L568, L569, L570, L571, L573, L574, L577, L579, L581, L583, L585, L587, L588, L589, L590, L592, L593, M500, M501, M502, M503, M504, M505, M506, M508, M510, M511, M513, M515, M517*, M521*, M522*.

For the most up-to-date UL Designation Type LRK, contact your USG representative.

Note *UL Design requires greater minimum pour depths and compressive strengths and/or additional requirements. See individual UL Designs for specifics.

Type LRK is UL/ULC Classified as a non-combustible material in accordance with ASTM E136 and CAN/ULC-S114.

EXTENDED WARRANTY

An extended warranty may apply when using USG Levelrock floor underlayments in a system application. Please contact USG for further details.

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

800.USG.4YOU
800 (874.4968)
usg.com

Manufactured by
United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

IG1450-USA-ENG/rev. 4-25
© 2025 USG Corporation and/or its affiliates. All rights reserved.
Printed in U.S.A.

