

Levelrock® Floor Underlayment

Commercial RH

Premium poured cementitious flooring underlayment products

- Fast application, fast setting allows for return of light traffic within hours
- Formulated for radiant flooring for commercial floors
- Meets vinyl industry commercial specifications
- Smooth, crack-resistant surface
- Helps maximize sound isolation between floors/units
- Applied by USG-authorized applicators

Description

LEVELROCK® brand commercial RH floor underlayment is a fast-applying cementitious underlayment formulated specifically by USG for electrical and hot water radiant heat floor installations in both residential and commercial interior construction. It is designed to provide compressive strengths from 3500-4500 psi at a 3/4-in. minimum thickness up to a 3-in. maximum thickness. The tough compressive and surface strengths of LEVELROCK commercial RH floor underlayment offer long-term resistance to trade activity typical of commercial construction. The underlayment accepts virtually all types of floor coverings including resilient floors, ceramic tile, carpeting and wood.

The non-shrinking nature of LEVELROCK commercial RH floor underlayment locks tubing in place, preventing noise and tube chafing, while its formulation prevents the temperatures associated with radiant heat floors from breaking down the floor matrix. In addition to locking the tubes in place, the direct contact of LEVELROCK commercial RH floor underlayment to hydronic pipes provides for efficient transfer of heat to the underlayment by eliminating any air space that may act as an insulator and lower heat transfer efficiency.

USG poured cementitious underlayment products are mixed with sand and water at the job site to yield a light-weight slurry. Most radiant heat jobs will be poured at a 1-1/2 in. total thickness to cover the pipes. Encasing electrical radiant heat systems typically requires less material. There should be a minimum thickness of 3/4 in. of LEVELROCK commercial RH floor underlayment above the cables. Most electrical systems' typical total thickness (including LEVELROCK commercial RH floor underlayment) may be at a 1-in. thickness.

A 1-1/2-in. thick underlayment weighs approximately 15 lbs./sq. ft. and has a density of only 120 lbs./cu. ft.

Limitations

1. Do not use in exterior applications.
2. Do not use as a wearing surface.
3. Do not install where continuous exposure to moisture is a possibility (for instance, exterior balconies or large commercial/institutional shower rooms).
4. Do not install in below-grade applications.
5. Do not use with radiant heat systems having prolonged operation temperatures exceeding 150 °F.
6. Do not install on a square-edge wood subfloor without back bracing.
7. Do not install on a subfloor that does not meet L/360 design.

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 floor underlayment, which typically occurs within 10 to 14 days at a 1-1/2 in. thickness. Limit the maximum deflection of the subfloor and framing system to L/360 to prevent undue stress from occurring in the floor fill material, as this stress may produce cracks. Over plywood subfloors, tongue-and-groove edge supported type plywood is recommended for meeting this deflection criterion. Ensure that all hydronic piping or radiant heat mats are attached firmly to the subfloor.

The application of LEVELROCK™ floor underlayment primer to the subfloor is necessary to provide maximum bond between the underlayment and the subfloor. LEVELROCK commercial RH floor underlayment may be installed in on-grade applications; contact your USG representative for details. Concrete subfloors that are receiving cementitious underlayment systems must be cured properly (generally for a minimum of 28 days) prior to the underlayment installation. Concrete subfloors should be treated properly with LEVELROCK™ floor underlayment concrete primer according to the manufacturer's recommendations. For floor covering guidelines, see USG publication IG1457.

Product Data

Nominal Compressive Strength (aggregated) ASTM C472: 3500-4500 psi
Density (aggregated): 120 lbs./cu. ft.

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. 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.

VOC Content: Zero

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 MSDS and literature before specification and installation.

