

# Levelrock® Floor Underlayment 4500 Pre-Sanded



## Premium poured floor underlayment

- Fast application, fast-setting allows for return of trade traffic within hours
- Pre-sanded for consistent quality
- Ideal for commercial, institutional and renovation construction
- Meets vinyl industry commercial specifications
- Exceptionally smooth, crack-resistant surface
- Helps maximize sound isolation between floors/units
- Applied by USG LEVELROCK applicators

## Description

LEVELROCK® 4500 pre-sanded floor underlayment is a high-quality and versatile pre-sanded cementitious floor underlayment for use in commercial, institutional and renovation construction. It can be applied easily over concrete subfloors at a thickness of up to 3". Its high compressive strength at low thicknesses provides superior underlayment performance for higher-traffic areas. LEVELROCK 4500 pre-sanded floor underlayment boasts the smoothest surface in its class, making it the ideal substrate for a variety of floor coverings, from vinyl to wood to tile. High production rates, light weight with high compressive strength, and exceptional sound and fire resistance make LEVELROCK 4500 pre-sanded floor underlayment an ideal alternative to concrete floor applications.

USG poured cementitious floor underlayment systems provide an economical way to achieve lightweight, fire-resistant, sound-rated, smooth and monolithic floors in residential, commercial and institutional construction. Typical applications are less labor intensive than many other types of construction and provide high fire ratings characteristic of gypsum systems. Designed sound systems provide for improved STC and IIC ratings when used with LEVELROCK sound attenuation products.

## 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/industrial shower rooms).
4. Do not install in below-grade applications.
5. Do not install in on-grade applications without consulting a USG representative.
6. Do not install with less than 1/4" minimum thickness.
7. Do not use on wood subfloors.
8. Do not install over sound mat (except LEVELROCK™ low profile D20™ sound mat) unless wire lath is used.
9. 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.
10. Do not use as a structural element.

## Installation

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 floor underlayment, which typically occurs within 3 to 5 days at a ½ in. thickness.

Concrete subfloors receiving cementitious underlayment systems must be cured properly (generally for a minimum of 28 days) prior to the underlayment installation. For on-grade applications on concrete subfloors, measure the Moisture Vapor Emission Rate (MVER) using ASTM F1869. MVER should be below 3 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.

**Product Data**

LEVELROCK 4500 pre-sanded floor underlayment is sanded at the factory. Job site addition of sand is not recommended and will void the warranty. LEVELROCK 4500 pre-sanded floor underlayment is mixed with water to yield a lightweight slurry for a smooth, monolithic surface. A 1/2-in. thick underlayment weighs approximately 5.5 lbs./sq. ft. and has an approximate dry density range of 125–130 lbs./cu. ft.

**Approximate Compressive Strength (aggregated) ASTM C472 (modified):** 4500-5500 psi\*

**Approximate Dry Density (aggregated):** 125–130 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.

**Test Data**

**Sound**

USG has conducted a variety of sound tests on underlayment systems at NVLAP-certified laboratories. These tests have been in conformance with ASTM E90 and E492. Consult USG publications IG1650 and SA305 for STC and IIC results on a variety of floor coverings meeting current code requirements.

**UL Designs**

Contact your USG representative.

**Compliance**

Contact your USG representative.

**Submittal Approvals**

<b>Job Name</b>	
<b>Contractor</b>	<b>Date</b>

**Product Information**

See [levelrock.com](http://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](http://usg.com). **KEEP OUT OF REACH OF CHILDREN.**

**Trademarks**

The following trademarks used herein are owned by United States Gypsum Company or a related company: D20, LEVELROCK, USG, USG in stylized letters.

**Notice**

We shall not be liable for incidental and consequential 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 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.

