



# USG LEVELROCK® BRAND PRE-POUR™ LIQUID UNDERLAYMENT

## Pre-formulated liquid gypsum slurry

- Ideal for pre-pouring underneath tubs and in chase wall areas in multi-family construction
- Convenient; easily applied over wood subfloors
- Dust-free mixture
- Fast setting with use of USG Levelrock® Brand Pre-Pour™ Liquid Activator

## DESCRIPTION

USG Levelrock® Brand Pre-Pour™ Liquid Underlayment is a unique liquid slurry that remains dormant until mixed with USG Levelrock® Pre-Pour™ Liquid Activator. USG Levelrock Pre-Pour Liquid Underlayment is a high-quality, cementitious floor underlayment for interior use in multi-family, light commercial and renovation construction. It can be easily applied over wood subfloors at thicknesses from 1/2 in. (13 mm) to 3 in. (76 mm).

USG Levelrock Pre-Pour Liquid Activator is designed solely for use with USG Levelrock Pre-Pour Liquid Underlayment. This specially formulated liquid additive is used to trigger the setting of USG Levelrock Pre-Pour Liquid Underlayment and provides a typical set time range of 30-70 minutes once the activator is mixed into the underlayment.

Typical applications are less labor intensive than many other types of construction and provide high fire and sound ratings that are characteristic of gypsum systems. USG Levelrock Pre-Pour Liquid Underlayment is an economical alternative to mobilizing pump equipment to pre-pour small problematic areas such as the footprint underneath tubs or in chase wall areas in multi-family construction. USG Levelrock Pre-Pour Liquid Underlayment is compatible with USG Levelrock® sound attenuation products. Contact USG for more information.

## SUBFLOOR PREPARATION

All subfloors must be structurally sound, stable and solid. If there is any question about the structural soundness of the subfloor, consult with the engineer on the project or request the services of a professional structural engineer.

Subfloors must be clean and free of dirt, tar, wax, oil, grease, latex compounds, sealers, curing compounds, release agents, asphalt, water-soluble adhesives, paint, chemicals, loose old cementitious products, joint compounds from drywall installation or any other contaminant that might prevent proper bonding of underlayment to concrete. Seal off floor drains before starting to pour underlayment to prevent drain pipes from clogging.

## PRIMING

Floors to be primed must be dry, structurally sound and clean. Remove any dirt, tar, wax, oil, grease, latex compounds, sealers, release agents, asphalt, water-soluble adhesives, paint, chemicals, loose topping, joint compounds from drywall installation or any other contaminant that might interfere with development of good bond.

Use USG Levelrock® Brand Wood Floor Primer for preparing the wood subfloor prior to application of USG Levelrock Pre-Pour Liquid Underlayment. Proper use of USG Levelrock Wood Floor Primer effectively seals the subfloor and prevents formation of pinholes, domes and craters in USG Levelrock Pre-Pour Liquid Underlayment due to the upward migration of air bubbles from the subfloor. For primer application, the temperature of USG Levelrock Wood Floor Primer, the subfloor and the room must be maintained between 50 °F and 95 °F (10 - 35 °C) for a period of 48 hours before, during and after application. Refer to *USG Levelrock® Brand Wood Floor Primer* submittal sheet (IG1505) at [usg.com](http://usg.com) for installation instructions and application rates.

**MIXING  
TOOLS**

- Mixing drill type 2 through 7—as outlined in the Technical Guidelines prepared by the International Concrete Repair Institute (ICRI), *Pictorial Atlas of Concrete Repair Material Mixing Equipment* (Guideline No. 320.5R-2014)
- USG Sheetrock® Brand Mud Mixer (visit [sheetrocktools.com/locations](http://sheetrocktools.com/locations) for purchase)
- Large metal spatula

**RATIO**

One 50-lb. (22.7 kg) pail of USG Levelrock Pre-Pour Liquid Underlayment to 1 quart (US) (.9 L) USG Levelrock Pre-Pour Liquid Activator.

**INSTRUCTIONS**

Before mixing USG Levelrock Pre-Pour Liquid Underlayment, vigorously shake USG Levelrock Pre-Pour Liquid Activator to ensure there is no clumping or crystallization. If clumping is observed in the activator and it does not re-incorporate into the solution, do not use the activator. Do not use if the activator has been frozen.

Before adding the activator, use an appropriate ½ in. (13 mm) drill and a USG Sheetrock® Brand 30 in. (762 mm) Professional Drywall Mud Mixer or equivalent to mix the USG Levelrock Pre-Pour Liquid Underlayment on low speed (300 rpm) for one minute. While mixing, pour the entire contents of the USG Levelrock Pre-Pour Liquid Activator bottle into the vortex created in the middle of the bucket. Mix on low speed (300 rpm) for 30 seconds. Stop mixing and scrape the inside walls of the bucket with a large spatula to ensure that all activator is incorporated into the mix. After scraping the bucket, mix on low speed (300 rpm) for another 30 seconds before application. Do not over mix. The mixed slurry has a working time of 5-10 minutes.

**Note** – Following this mixing procedure is a vital step in preventing soft spots in the underlayment.

**APPLICATION**

For best results, temperature of mixed slurry should be 60-80 °F (15-26 °C); ambient air temperature should be 50-95 °F (10-35 °C). Apply the mixed USG Levelrock Pre-Pour Liquid Underlayment in an even ribbon along the short dimension of the area to be poured. Maintain a continuous wet edge. If pouring USG Levelrock Pre-Pour Liquid Underlayment against an edge that has been allowed to set, the edge of the previous pour should be treated with USG Levelrock Wood Floor Primer.

After USG Levelrock Pre-Pour Liquid Underlayment is firmly set (typically two hours after the pour), provide adequate ventilation to ensure uniform drying of the installed underlayment, which typically occurs within 5-10 days at ¾ in. (19 mm) thickness. High ambient humidity and deeper thicknesses will delay the drying process. Surface of the underlayment can be damaged. Protect floors from impact and 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.

**NOTES/LIMITATIONS**

1. Do not use in exterior applications.
2. Do not use as a wear surface.
3. Do not install where continuous exposure to moisture is a possibility.
4. Do not install over dimensionally unstable, improperly prepared, weak subfloors.
5. Do not use oil-based sweeping compounds to clean and prepare the wooden subfloor. Use of such sweeping compounds leaves an oil film on the surface that will interfere with the underlayment's bond development. Use a HEPA filtration industrial vacuum or a dry broom to remove the dust and debris and prepare the subfloor for USG Levelrock Pre-Pour Liquid Underlayment application.
6. Do not over mix.
7. Do not add any chemical additives or polymers to USG Levelrock Pre-Pour Liquid Underlayment.
8. Do not mix with other cementitious products or self-leveling materials.
9. Structure shall be designed so deflection does not exceed L/240 from combined dead and live loads and L/360 from live loads.
10. Install only over engineer-approved, APA-Rated exterior glue plywood or oriented strand board (OSB) (i.e., APA-Rated Exterior or Exposure 1 panels) wood subfloors. Subfloors should be tongue-and-groove edge plywood or OSB, or square-edge wood subfloor with back bracing.
11. Keep USG Levelrock Pre-Pour Liquid Activator from freezing. Do not use when temperature falls below 50 °F or exceeds 95 °F (10-35 °C).
12. Do not use if USG Levelrock Pre-Pour Liquid Activator has frozen.
13. Do not use USG Levelrock Pre-Pour Liquid Activator if there is clumping or crystallization of the liquid that does not re-incorporate into the solution after shaking the bottle vigorously.
14. Contact USG for any applications not described in this document.

**PRODUCT DATA**

**Approximate Compressive Strength ASTM C109 (modified)<sup>1,2</sup>:** 2,000-3,200 psi (13.8-22.0 MPa)  
**Approximate Wet Density<sup>2</sup>:** 120 lbs./cu. ft. (1922 kg/cu. m.)  
**Approximate Dry Density<sup>2</sup>:** 110 lbs./cu. ft. (1762 kg/cu. m.)  
**Approximate Coverage:** 7.5 sq. ft. (.7 m<sup>2</sup>) at 3/4 in. (19 mm) per 50 lb. (22.7 kg) pail  
**Approximate Flow Time<sup>2</sup>:** 5-10 minutes at 70 °F (21 °C)  
**Approximate Final Set ASTM C472<sup>2</sup>:** 30-70 minutes at 70 °F (21 °C)  
**Thickness Range:** 1/2 in. (13 mm) - 3 in. (76 mm)  
**Packaging:** Premeasured kit consists of 50 lb. (22.7 kg) of USG Levelrock Pre-Pour Liquid Underlayment and 1 quart (US) (.9 L) of USG Levelrock Brand Pre-Pour Liquid Activator

**NOTES**

1. ASTM C109 modified refers to air drying as opposed to damp curing.
2. Results published herein were achieved under controlled laboratory conditions. Actual field results may differ due to environmental conditions, inconsistent proportioning of field-applied activator and USG Levelrock Pre-Pour Liquid Underlayment, as well as differences in mixing equipment.

**STORAGE**

Do not store USG Levelrock Pre-Pour Liquid Underlayment in freezing conditions. During summer months, do not store at temperatures above 120 °F (49 °C). USG Levelrock Pre-Pour Liquid Underlayment has a shelf life of 6 months from the manufacture date in original unopened container.

**SUBMITTAL APPROVALS**

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

**PRODUCT INFORMATION**

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

**CAUTION**

Exposure may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Avoid breathing mist or vapor. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If on skin: Wash with plenty of water. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation or other symptoms develop or persist get medical attention. Dispose of in accordance with local, state, and federal regulations. Keep containers closed when not in use. For more information call Product Safety: 1-800-507-8899 or see the SDS at usg.com

**KEEP OUT OF REACH OF CHILDREN.**

**TRADEMARKS**

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**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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