



PRODUCT CATEGORY: SURFACE PREP

LiquiCem™

ECONOMICAL SELF-SMOOTHING AND LEVELING COMPOUND

Bucket or Barrel Mixed | Up to 45 Minutes Working Time | Install Flooring in 16 Hours

DESCRIPTION: XLBrands® LiquiCem™ is an economical, interior, self-smoothing underlayment and leveling compound used in preparation of finished floor coverings. LiquiCem can be installed at 1/16" or 1/8" using a gauge rake and rubber finishing tool or spike roller, or at 1/4" - 1" using standard leveling tools. Single coat, self-smoothing applications increase production 3-5 times over multi-coat patching methods and leave a smoother surface. LiquiCem can also be installed as a traditional self-leveler up to 1" when a flat or level subfloor is desired. Ceramic tile and stone can be installed 4 hours after LiquiCem is walkable. Floor coverings such as carpet, VCT, vinyl sheet goods, rubber, and wood can be installed as soon as 16 hours.

PRODUCT FEATURES:

- Contains CMP Formulated Technology
- Creates a super-smooth surface ideal for sensitive floor coverings
- More economical than multi-coat hand patching
- Suitable over sound, lightweight concrete, and well-bonded VCT
- Very fast and easy to apply without the imperfections associated with hand patching
- Super fluid—up to 40% more fluid than traditional self-leveling
- Contributes points to LEED®-Certified Projects

SUBSTRATE PREPARATION, PRIMING, AND APPLICATION THICKNESS

GENERAL NOTE: LiquiCem is not a vapor barrier. Moisture testing should be completed using test methods ASTM F-1869 for (MVER) and ASTM F-2170 for (RH). If levels exceed the maximum allowed by the coating, adhesive, or flooring manufacturer's product that will be installed, a LockDown™ EVB or DriSeal® ONYX™ application is required. All surfaces must be clean, sound, dry, 50°F, and free of oil, gypsum compounds, wax, grease, sealers, cure and seals, urethane, paint, asphalt, loose surface material, or any contaminate that will act as a bond breaker. Never use acid or mastic removers on any surface to which an XL

Brands® product will be applied. Substrate must have a minimum direct tensile bond test reading of 72 psi per (ASTM C-1583-04). If cure and seals are present, they must be removed by mechanical means prior to application

CONCRETE (Rough, Open, and Porous):

PREPARATION: Weak or contaminated surfaces must be cleaned down to solid, sound concrete by mechanical means such as chipping, shot-blasting, grinding or scarifying.

PRIMING: Apply one coat of AS-100™ diluted 50/50 (1 part water : 1 part AS-100™) using a split-tip broom. Pour out and work into surface; leave no puddles or bare spots. Apply LiquiCem once AS-100™ is dry (minimum 1-2 hours and up to 24 hours). If the primer has dried longer than 24 hours, a second coat of AS-100™ may be required.

THICKNESS: 1/16" or 1/8" using a gauge rake and rubber finishing tool or spike roller, or 1/4" - 1" using standard leveling tools.

NONPOROUS (Epoxy Coatings, Epoxy Terrazzo, Ceramic and Quarry Tile):

PREPARATION: Mechanically abrade substrate to a dull finish by shotblasting or grinding. Vacuum to remove all dust.

PRIMING: Apply one thin coat of AS-100™ (undiluted) using a 3/8" nap roller. Apply LiquiCem once AS-100™ is dry (minimum 1-2 hours and up to 24 hours). If AS-100™ has dried longer than 24 hours, a second coat of AS-100™ may be required.

THICKNESS: 1/16" or 1/8" using a gauge rake and rubber finishing tool or spike roller, or 1/4"- 1" using standard leveling tools.

WOOD: (REQUIRES METAL OR PLASTIC LATH INSTALLATION)

Note: Wood must be a minimum 3/4", L/360, untreated, APA-Rated, Type-1, exterior grade, plywood, OSB, or equal. The subfloor must be free of deflection (minimum L/360), considering both live and dead loads. Use an approved anti-fracture membrane over LiquiCem where ceramic tile or stone are being installed. Follow all TCNA guidelines and standards.

PREPARATION: Prepare by sanding down to clean, bare wood. Secure loose boards with deck screws and fill open seams with XL Brands® PrepStar™. Replace any weak or water-damaged wood.

PRIMING: Apply one thin coat of AS-100™ (undiluted) using a 3/8" nap roller, allowing it to dry (minimum 1-2 hours and up to 24 hours). Apply lath per the manufacturer's instructions and fastening schedule. Be sure to apply the LiquiCem per instructions within a 24-hour period of priming.

THICKNESS: 1/4"- 1" using standard leveling tools.

ADHESIVE RESIDUE: (THIN, TRANSLUCENT, NON-WATER-SOLUBLE, FREE OF TACK, AND WELL BONDED)

PREPARATION: LiquiCem can be installed over thin (translucent) sound, non-water-soluble adhesive residues that are free of tack and well bonded to the substrate. The adhesive cutback needs to be prepared using the wet scrape method as outlined in the Resilient Floor Covering Institute booklet "Recommended Work Practices for the Removal of Resilient Floor Coverings." Remove all patching materials below the adhesive and avoid applications where heat or excessive moisture will soften or degrade the adhesive.

NOTE: If unsure of the suitability or if deflection or heavy loads are expected, use application listed below for very distressed subfloors.

PRIMING: Apply one thin coat of AS-100™ (undiluted) using a 3/8" nap roller. Apply LiquiCem once AS-100™ is dry (minimum 2 hours and up to 24 hours). If AS-100™ has dried longer than 24 hours, a second coat of AS-100™ may be required.

THICKNESS: A minimum of 1/2"- 1" using standard leveling tools.

VERY DISTRESSED SUBFLOORS [POROUS] (REQUIRES LATH INSTALLATION): Mud Beds, Lightweight Concrete, Overwatered Concrete:

PHYSICAL PROPERTIES	
Packaging	50 lb. bag, 48 bags per pallet
Color	Grey
Shelf Life	18 months in plastic bag
Water Requirements	6.5 quarts per 50 lb. bag
Required Application Tools Standard Leveling:	Mixing drum
	Mixing paddle
	Gauge rake
	Smoothing paddle
	Measuring pail
	Split-tip broom / 3/8" Nap roller
	1/2" drill (minimum 650 rpm)
	Plastic athletic cleats
	Spiked roller
	Required Application Tools for 1/8" Applications:
	Finishing tool
Approx. Coverage: 50 lb. Bag	1/8" (3.2 mm) covers 60 ft² (5.6 m²)
	1/4" (6.4 mm) covers 30 ft² (2.8 m²)
Typical Installation Thickness	1/8" up to 1" (3.2 up to 25.4 mm)
	5" (12.7 cm) extended with stone aggregate
Installed Weight (Per Sq. Ft.)	2.0 lbs. at 1/4" (6.4 mm)
Application Temperature Range	50°F to 95°F (10°C to 35°C)
Set Time: ASTM C191 (70°F [21°C] @ 50% RH)	Flow Time: 45 minutes
	Final Set: 90 minutes
Compressive Strength: ASTM C109 Modified	4 Hours 2000 psi 13.8 MPa
	1 Day 4000 psi 27.6 MPa
	28 Days 5500 psi 37.9 MPa
Accepts Coverings: (After Final Set) (70°F [21°C] @ 50% RH) Adequate Ventilation	Ceramic Tile & Stone: 4 hrs. at 1/4" (6.4mm)
	Common Floor Coverings: 16 hours at 1/4" (6.4 mm)

Note: Cooler temperatures, higher humidity, and inadequate ventilation can extend drying times.

PREPARATION: Remove all loose debris from subfloor. Sweep and vacuum substrate thoroughly.

PRIMING: Apply one coat of AS-100™ diluted 50/50 (1 part water : 1 part AS-100™) over high porous and very distressed substrates using a split-tip broom. Double prime; 1:3 & 1:1 to reach a complete, thin, shiny film is obtained. More porous substrates may need additional priming to obtain a thin film of primer. Pour out and work into surface, leave no puddles or bare spots. Apply lath and LiquiCem once AS-100™ is dry (minimum 1-2 hours and up to 24 hours). If the primer has dried longer than 24 hours, a second coat of AS-100™ may be required.

THICKNESS: A minimum of 1/2"- 1" using standard leveling tools.

MIXING: For each bag, add a maximum 6.5 quarts of clean, cold water into a mixing container. Then, add bag(s) of LiquiCem while mixing at full speed with a mixing paddle attached to a heavy-duty 1/2" drill (minimum 650 rpm). Mix for 2-3 minutes or until lump free. Add no additional water, and keep the mixing paddle immersed in the material to avoid entraining excess air.

INSTALLATION:

SELF-SMOOTHING - 1/16" or 1/8": After mixing, pour LiquiCem out in a continuous band, while maintaining the shortest wet edge possible. Spread the LiquiCem into all areas and allow the material to flow out for several minutes before finishing. Wearing cleats, walk into the material and smooth in an overlapping pattern using the rubber finishing tool. Pour subsequent mixes on top of wet edge of finished material without leaving voids or gaps and repeat.

SELF-LEVELING - 1/4"- 1": After mixing, pour LiquiCem out in a continuous band while maintaining the shortest wet edge possible. Spread the LiquiCem evenly with a gauge rake. Wearing cleats, walk into the raked material and finish with overlapping passes using a rubber smoothing tool. Pour subsequent mixes on top of wet edge of finished material without leaving voids or gaps and repeat.

PUMPING: Deep placements and large projects are more efficiently installed with the use of a pump. Contact technical service for instructions, recommended pumping procedures, and approved equipment (such as an Imer Koine 4).

NOTE: During application and for first 24 hours, prevent excessive air movement but maintain adequate ventilation and protect material from direct sunlight. These variables can cause uneven curing patterns, a false set, or cracking.

IMPORTANT APPLICATION NOTES AND LIMITATIONS:

- It is the responsibility of the contractor to review the complete technical data sheets of all XL Brands® products referenced above for full instructions and limitations, as more detailed information may be required. The information provided in this document acts only as a general guideline and may vary based on jobsite conditions.
- Expansion or Isolation joints and working cracks must be reflected through LiquiCem.
- With self-smoothing installations, substrate variations can telegraph. Apply enough material to achieve desired result.
- If your flooring adhesive will flash too quickly, prime your substrate with XL Brands® Prelude™ Primer for Alkaline or Porous Substrates. Apply one coat of Prelude™ with a 3/8" nap roller. Allow Prelude™ to dry to the touch before applying XL Brands soft flooring adhesive.
- Do not use over materials containing asbestos.
- While a 650 rpm drill does work, a drill that is rated 850 rpms is recommended. This higher rpm will allow for faster, more uniform mixes.
- During application and first 24 hours, prevent excessive air movement and protect from direct sunlight.
- LiquiCem is self-curing. No wet curing methods or cure and seals should be used.
- Contact technical service for any application not specifically listed.

- For high traffic, heavy rolling loads and maximum depth of fill conditions, an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #3 to #4 is required beneath the appropriate primer

ELIGIBLE LEED® CREDITS:

Regional Materials
Low-Emitting Materials

STORAGE: Shelf life is 18 months from manufacturing date in unopened, original packaging. Must be stored in a cool, dry location, elevated (off the ground or floor) at temperatures between 40°F and 90°F (5°C and 32°C). Protect from moisture and excessive humidity. Do not expose to direct sunlight during storage.

VOLATILE ORGANIC COMPOUNDS: 0 g/L (as calculated per SCAQMD 1168)

CLEANUP: Clean with water immediately after use.

HEALTH AND SAFETY: Always refer to the Safety Data Sheet (SDS) prior to use for proper handling, cleanup, and spill containment. SDS may be obtained by calling 706-508-5907.

FOR PROFESSIONAL USE ONLY

NOT LABELED FOR CONSUMER USE

KEEP OUT OF REACH OF CHILDREN

LIMITED WARRANTY: Limited Warranty found at www.bostik.com/us or call 800.726.7845. TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. BOSTIK DISCLAIMS ANY LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES TO THE MAXIMUM EXTENT ALLOWED BY LAW. DISCLAIMERS OF IMPLIED WARRANTIES MAY NOT BE APPLICABLE TO CERTAIN CLASSES OF BUYERS AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

Legal Disclaimer: All information contained herein is believed to be accurate as of the date of publication, is provided "as-is" and is subject to change without notice. This is not a warranty, an agreement, or substitute for expert or professional advice. Bostik, Inc. ("Company") expressly disclaims and assumes no liability for the use of the products or reliance on this information. It is the sole responsibility of the user to determine the suitability of any products for user's application(s). NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED IS MADE CONCERNING THE PRODUCTS OR THE INFORMATION PROVIDED HEREIN. The information provided relates only to the specific products designated herein and may not be valid where such products are used in combination with other materials or in any process. The performance of the product, its shelf life, and application characteristics depend on many variables, and changes in these variables can impact product performance. You are responsible to test the suitability of any product in advance for any intended use or application and before commercialization. Nothing herein shall be construed as a license for the use of any product in a manner that might infringe any patent and it should not be construed as an inducement to infringe any patent. Please carefully review the Safety Data Sheet for the product. Published as of 08.02.2024.