



ARDEX

Liquid BackerBoard™

Self-Leveling Underlayment for Interior Wood Subfloors

**Smooths wood subfloors prior to the installation of tile and
stone flooring**

DOES NOT REQUIRE LATH MESH OR ADDITIVE

Portland cement-based

Install tile and stone flooring in 6 hours

Install up to 1 1/4"

Excellent coverage

Easy to mix - just add water - no additive required

Walk on in 2 to 3 hours

Suitable with electrical in-floor heating systems

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ARDEX Liquid BackerBoard™

Self-Leveling Underlayment for Interior Wood Subfloors

Description and Usage

ARDEX Liquid BackerBoard™ is a pourable, Portland cement-based material that replaces backerboard for a faster, easier, seamless installation over interior wooden subfloors, eliminating the need to cut, fit, glue and fasten. ARDEX Liquid BackerBoard DOES NOT NEED LATH MESH and can be used to smooth and level wood subfloors and encapsulate in-floor electrical heating systems. Tile and stone can be installed in 6 hours.

Substrate Preparation

Substrate and ambient temperatures must be a minimum of 50°F (10°C). Wood subfloors must either be solid hardwood flooring, a minimum of 3/4" tongue-and-groove, APA-rated Type 1, exterior exposure plywood, or an OSB equivalent. Refer to ANSI A 108 AN-2 "General Requirements for Subsurfaces" and the TCNA's "Handbook for Ceramic Tile Installation" for detailed information.

All subfloors must be clean and completely free of all contaminants, including dust, oil, grease, wax, sealers, paint, varnish, etc. Do not use chemicals to clean the floor. Prepare wooden subfloors by sanding. The substrate must be dry and properly primed for a successful installation. Fill open joints with appropriate ARDEX patching compound prior to the installation of ARDEX Liquid BackerBoard.

PRIOR TO APPLICATION: Use 1/2" weather-stripping, caulking or similar to keep the ARDEX Liquid BackerBoard from flowing under cabinets or drywall, around plumbing or into adjacent rooms. Protect wall base and door moldings with painter's tape and plastic sheeting. Remove after the product has hardened (approx. 3 hours at 70°F/21°C).

Recommended Tools

ARDEX T-1 Mixing paddle, ARDEX T-10 Mixing Drum, ARDEX T-4 spreader, ARDEX T-5 Smoother, ARDEX 6.0 Measuring Bucket (6 qts. for 50 lb. bag) and a 1/2" heavy-duty drill (min. 650 rpm).

Priming

Prime with ARDEX P 51™ undiluted. Apply with a short-nap or sponge paint roller, leaving a thin coat of primer. Do not leave bare spots. Brush off puddles and excess primer. Allow drying to a clear, thin film (min. 3 hours, max. 24 hours). Low substrate temperatures and/or high ambient humidity may require longer drying times. **Do not install ARDEX Liquid BackerBoard before the primer has dried thoroughly.**

Mixing and Application

Mix each 50 lb. (22.7 kg) bag with 6 quarts (5.7 L) of cold, clean water. Put the water in the mixing drum first then add ARDEX Liquid BackerBoard while mixing with the mixing paddle and drill. Mix thoroughly for 2 to 3 minutes to obtain a lump-free mix. **Do not overwater! Yellowish foam while mixing, or settling of the sand aggregate while placing, indicates overwatering.** This product cannot be mixed by hand.

ARDEX Liquid BackerBoard has a flow time of 10 minutes at 70°F (21°C). Pour the liquid mix onto the floor and spread with the ARDEX T-4 spreader. Immediately smooth the material with the T-5 smoother. Wear athletic shoes with non-metallic cleats to avoid leaving marks in the ARDEX Liquid BackerBoard.

Thickness of Application

Install at a minimum thickness of 1/8" over the highest point in the floor, which typically results in an average thickness of 1/4" over the entire floor. ARDEX Liquid BackerBoard can be installed up to 1 1/4" and can be tapered to match existing room elevations.

Wear Surface

ARDEX Liquid BackerBoard is not to be used as a permanent wear surface, even if coated or sealed.

Installation of Flooring

For installations up to 1/2" thick, install tile and stone flooring after 6 hours. For installations thicker than 1/2", as well as for the installation of moisture sensitive stone, test for dryness as follows: 48 hours after installing ARDEX Liquid BackerBoard, place a piece of heavy plastic or a smooth rubber mat down over a 2' x 2' area. Wait 24 hours, then lift and inspect for surface darkening. Surface darkening means further drying is needed. Repeat this test at regular time intervals until no darkening is observed.

Notes

ARDEX Liquid BackerBoard can be used in areas exposed to intermittent topical moisture such as bathrooms or kitchens. However, do not use it in areas of constant water exposure, as this may jeopardize the performance of the underlayment and floor covering.

For installations in intermittent wet areas, ARDEX recommends the use of an ARDEX waterproofing compound in conjunction with ARDEX Liquid BackerBoard. ARDEX waterproofing compounds can be installed after 24 hours.

Always install an adequate number of properly located test areas, including the selected flooring, to determine the suitability of the products for the intended use. As tiles may vary, always contact and rely upon the tile manufacturer for specific directives such as intended end use of the product.

Precautions

Never mix with cement or additives other than ARDEX approved products. Observe the basic rules of concrete work. **Do not install ARDEX Liquid BackerBoard below 50°F (10°C) surface and air temperatures.** Install quickly if substrate is warm, and follow hot weather instructions available from the ARDEX Technical Service Department.

Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 3 parts powder to 1 part water by volume at 70°F (21°C)

Mixing Ratio:	6 quarts (5.7 liters) of water per one 50 lb bag.
Coverage:	65 sq. ft. per bag at 1/8" 32.5 sq. ft. per bag at 1/4"
Flow Time:	10 minutes
Initial Set (ASTM C191):	approximately 30 minutes
Final Set (ASTM C191):	approximately 60 minutes
Compressive Strength (ASTM C109/mod – Air cure only):	3000 psi at 28 days
ASTM C627 rating (Robinson-Type Floor Tester):	Classified as extra heavy
Flexural Strength (ASTM C348):	700 psi at 28 days
Flammability (ASTM E84):	Flame Spread –0– Fuel Contribution –0– Smoke –0–
Walkable:	3 hours
Install Tile:	6 hours for most tile and stone flooring at 70°F (21°C) and 50% RH
Storage:	Store in a cool dry area. Do not expose bags to sun.
Shelf Life:	One year if unopened
Warranty:	Please see the ARDEX Tile & Stone Installation System Warranty Brochure

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AT244 (11/08)

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