

Pro-Line LevelBond™

Premium Self-Leveling Underlayment

Packaging: Available in 50 lb. bags Gray

- * For leveling and smoothing interior floors
- * Pours up to 2"
- * No V.O.C.
- * Contributes to LEED®

◆**Usage:** LevelBond™ is a premium self-leveling underlayment composed of Portland cement and unique chemical additions that when mixed with water creates a free-flowing mortar. LevelBond will find its own level when poured and is designed to create a smooth, level surface for placement of floor coverings. LevelBond™ is for interior use over concrete, exterior grade plywood (EGP), marble, terrazzo and ceramic tile as long as they have first been primed with LevelBond™ Primer.

◆**General Preparatory Work:** All surfaces must be dry, structurally sound and not subject to extreme temperatures (below 50°F or above 100°F) during installation. Detailed instructions may be found in the T.C.N.A. Handbook and ANSI A108.5. Surfaces must be free of all grease, oil, dirt, dust, curing compounds, sealers, coatings, efflorescence, old adhesive residues, gypsum based underlayments and any other foreign matter. Always install several test areas to ensure compatibility, bond strength and performance of the complete flooring system.

◆**Concrete:** Substrate should be cured a full 28 days minimum. Concrete surfaces must be mechanically profiled and prepared by shot blasting, sandblasting, water-jetting, scarifying, diamond-grinding or other engineer approved methods (reference ICRI CSP 3 or greater standards for acceptable profile height). Test concrete using a calcium chloride kit (ASTM F1869). For MVER exceeding 5 lbs. per 1000 sq ft contact Bonded Materials Technical Services Department. Repair any spalled, unsound concrete and clean off any remaining dust. Concrete must have tensile strength of 175 psi or more. Apply LevelBond™ Primer after having diluted with clean, potable water at a ratio of 1:1. Apply an even coat using a brush or broom. Allow LevelBond™ Primer to dry a minimum of 2 hours, (to a slight tack) before applying LevelBond™.

◆**Exterior Grade Plywood:** EGP must be installed properly to provide a rigid and secure substrate. A gap of 3/16" to 1/4" must be left between sheets of EGP. Fill gaps with a polymer-modified mortar. Apply LevelBond™ Primer after having diluted with clean, potable water at a ratio of 1:1. Apply an even coat using a brush or broom. After LevelBond™ Primer has dried a minimum of 2 hours, (to a slight tack) then use galvanized or corrosion-proof nails or staples to place approved 3.4 galvanized diamond metal lath to floor. Mix 1 quart LevelBond™ Primer with 4 quarts clean, potable water and add to a 50 lb. bag LevelBond, mix as normal. Pour a minimum of 1/4"

mixture over the surface following the application instructions below.

◆**Marble, Terrazzo, Ceramic Tile:** Existing surfaces of marble, terrazzo, and ceramic tile must be well bonded to the existing substrate, thoroughly cleaned and mechanically scarified prior to placing LevelBond™ Primer. Place primer as outlined in the EGP method, metal lath is not required.

◆**Expansion Joints:** Expansion joints shall be installed in accordance with local building codes. Expansion joints, control joints and cold joints should never be bridged with LevelBond. See EJ171 in T.C.N.A. Handbook for details.

◆**Mix 2 bags of LevelBond™ at a time:** Add approximately 6 quarts per 50 lb. bag into a mixing drum for EACH 50 lb bag, then add the LevelBond™ powder while mixing at full speed with a paddle mixer attached to a heavy duty 1/2" drill (min. 650 rpm). Mix thoroughly for a minimum of 3-4 minutes while lump free, adding no additional water (Do not over water; overwatering may cause cracking and delaminating). Underlayment has a flow time of 10 minutes at 75°F (24°C), no troweling needed. The proper mortar consistency is free-flowing and free of all lumps. Do not use mortar after initial set in bucket.

◆**Application:** All substrates shall be primed with LevelBond™ Primer prior to application of LevelBond™. Pour LevelBond™ in desired location and disperse with a mortar spreader. If walking in fresh underlayment, spiked shoes are recommended. If a featheredge is desired, a finish blade may be used. LevelBond™ can be applied up to 2" thick and has an approximate flow time of 10 minutes. Application is foot-traffic ready in approximately 2 - 4 hours, depending on ambient temperatures.

◆**Curing:** Minimum cure is obtained in 12-24 hours depending on ambient temperatures. Strength improves significantly within initial 28 days as with concrete. Foot traffic is acceptable within 2-4 hours and floor coverings may be installed after 12 hours for ceramic or stone tile and after 24 hours for other floor coverings. When used in an area that will be continually wet, it is recommended the installation be allowed to cure a minimum of 14 days and be thoroughly dried prior to water exposure.

◆**Limitations:** Interior use only. LevelBond must not be used over gypsum based surfaces, old adhesive residue, paint, particle board, epoxy, or urethane floor coverings, plastic, or vinyl. LevelBond is designed for interior use only and should not be applied to any substrate until said substrate has been primed with LevelBond Primer. Do not use over substrates subject to hydrostatic pressure.



. Data Sheets are subject to change without notice. For latest revision, check our website at www.bondedmaterials.com.
If an installation or materials should be changed outside the detailed instructions, please contact our technical support dept. for assistance.

◆ Bonded Materials Company ◆

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◆**Cleaning:** Clean off any uncured mortar with clean water only.

◆**Protection:** Protect from freezing for 5-7 days

◆**Coverage:** 50 Sq Ft @ 1/8" per 50 lb. bag
25 Sq Ft @ 1/4" per 50 lb. bag

◆**Storage:** One year if kept dry in sealed bags.

◆**Safety:** May cause eye, skin, or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approved mask for silica dust. LevelBond™ contains Portland cement, if any cement or cement mixtures get into the eye, flush immediately and repeatedly with water, and then consult a physician promptly. Freshly mixed cement, mortar, concrete, or grout may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly with water. KEEP OUT OF REACH OF CHILDREN.

◆**Warranty:** Bonded Materials Company ("Bonded Materials") warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Bonded Materials sole liability under this warranty shall be limited to the replacement of the product. The statements, recommendations, and technical information provided are furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate. Bonded Materials makes no warranty for a particular purpose with respect to product sold herein, except quality of components shall be in accordance with Bonded Materials standards. It is expressly understood and agreed that the buyer's sole and exclusive remedy shall be replacement of defective products. Handling and actual use of product are beyond the control of Bonded Materials, therefore, no warranty is made, expressed or implied, as to the results obtained from use of the product or against any claims for infringement of patents resulting from the use of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Bonded Materials printed instructions. Bonded Materials makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

LevelBond Technical Data (based on 70°F [21°C] and 50% relative humidity)

Test	LevelBond Values
Flow Time	10 Minutes
Initial Set @ 70°F -	approx. 35 Minutes
Final Set @ 70°F -	approx. 2.0 Hours
Drying Time before applying Floor Covering	12-24 Hours
Compressive Strength ASTM C-109 28 Days	>4900 psi (345 kg/cm ²)
Flexural Strength ASTM C-348 28 Days	>1400 psi (98 kg/cm ²)
Tensile Strength ASTM C-190 28 Days	>435 (31 kg/cm ²)
Bond Strength ASTM D-3931 28 Days	>425 (30 kg/cm ²)

*Open times vary based on temperature, humidity, substrate, trowel size, and job-site conditions.



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