

Pro-Line Poxy™ Setting Mortar

100% Solids Epoxy Setting Mortar

◆**Packaging:** Available in 2 Gal. Units

- * **100% Solids Epoxy Setting Mortar**
- * **3 Component Water Washable**
- * **Excellent Chemical Resistance**
- * **Contributes to LEED®**

◆**Usage:** Pro-Line Poxy™ 100 % solids epoxy setting mortar is used to produce an impermeable, high strength mortar, and is highly resistant to chemicals. Suitable backing when used as a setting mortar include properly prepared brick, ceramic tile, glass mesh mortar units, steel, glass, fiberglass, masonry concrete, and cured Portland cement mortar beds. Use it for interior floor and wall applications and for exterior applications where the surface temperature is 50 – 100° F (10-38° C). It may be used for both floor and wall installations. Epoxy mortar thickness should not exceed 1/4" thickness after tiles have been properly embedded. Pro-Line Poxy™ is water cleanable before curing and easy to work. Pro-Line Poxy™ is not affected by prolonged contact with water, but does not necessarily form a waterproof barrier unless special precautions are taken to maintain a continuous film of epoxy mortar 3/32" (2.4 mm) thick with no gaps.

ANSI A108.4, A118.3

◆**Preparatory Work:** All substrates must be clean, dry, and 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. Surface 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. Painted or glossy surfaces must be sanded, stripped, and free of all contaminants.

◆**Tile:** Remove any tile release agent, usually a whitish powder found on the tile back. This may be done by scrubbing with a nylon brush and water.

◆**Cementitious Substrates:** Clean via mechanical sanding, scraping, or chipping. Surface may also be cleaned with muriatic acid if thoroughly flushed and neutralized. Smooth, steel troweled concrete surfaces must be mechanically scarified to ensure a good bond. Concrete should be able to absorb water. Dry porous concrete should be dampened prior to ceramic tile installation- do not leave puddles or standing water on surfaces.

◆**Non-Cementitious Substrates:** It is required that surfaces such as steel, glass and fiberglass be abraded and cleaned prior to setting tile to assure proper bonding. It is also required that the existing surface be structurally sound and firmly attached to the supporting structure.

◆**Plywood Substrates:** Pro-Line Poxy™ may be used over EGP on floors. Wood flooring when placed on top of conventional floor joist or other system, should maintain a substrate deflection not to exceed L/360th of span and L/720th of span for natural stone and that includes both live and dead loads. A gap of 3/16" must be left between sheets of EGP and all materials they abut to allow for expansion. Do not fill expansion joints with setting material. EGP substrate is acceptable for dry, interior applications only. Floors must comply with TCNA instructions for Floors, Interior: Wood Subfloor.

◆**Ceramic Tile Substrate:** Existing tile substrate must be properly bonded. Surface must be prepared in accordance with cementitious substrates and surface must be mechanically scarified prior to installation to ensure a proper bond.

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

◆**Mix:** After opening each container pre stir, then add both tubs of Part A and Part B into a clean pail and stir together to blend to a uniform color, then add contents of Part C and mix to a uniform consistency. An electric drill may be used to mix the product if used at a low RPM (300 or less). Use caution - do not over-mix. The proper mortar consistency is such that when applied with a notched trowel to the substrate, the ridges formed in the mortar will not flow or slump. Do not use mortar after initial set in bucket. Do not mix partial units.

◆**Application:** Spread mortar with flat side of trowel to key into substrate; then, apply additional mortar to a depth sufficient to be notched with a suitable trowel that will leave only enough mortar to give 100% contact with back of tile and a subsequent mortar bed from 1/16" to 1/4". With high lug tiles, "back buttering" may be required to ensure 100% coverage to back of tiles. During the setting of tile, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made. It is also required that tiles be embedded to obtain good transfer of mortar to tile and for proper alignment. Large tiles > 8" x 8" require back butter to provide full bedding and firm support. Do not adjust tiles in mortar after they have been set past 20 minutes.



*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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◆**Curing:** Minimum cure is obtained in approximately 24 hours depending on ambient temperatures. Allow minimum of 24-48 hours before grouting or light traffic. When used to install tile 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 dry prior to water exposure.

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

◆**Limitations:** Pro-Line Poxy must not be applied directly over hardwood, asphalt sheeting, vinyl covered wall board, Masonite®, cement asbestos board, OSB, luan plywood or gypsum mortar beds. Do not use with glass tile 6" or larger. Improperly cured or wet plywood, particle board or stripwood surfaces are not considered suitable substrates.

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

◆**Coverage:** Square feet per 2 gallon unit;
45-50 sq. ft. using 3/16" x 3/16" v-notch trowel
35-40 sq. ft. using 1/4" x 1/4" square notched trowel
25-30 sq. ft using 1/4" x 3/8" square notch trowel

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

◆**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. If any mixtures get into the eye, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed mortar 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.

Pro-Line Poxy Setting Mortar Technical Data (based on 70°F [21°C] and 50% relative humidity)

Test	Values
*Open time @ 70°F -	15-20 Minutes
Adjustability @ 70°F -	20-30 Minutes
Bucket life @ 70°F -	60-90 Minutes
Compressive Strength ANSI 118.3-5.6 (ASTM C579)	>6700 psi (471.2 kg/cm2)
Shear Bond Vitreous Tile ANSI 118.3-5.5 14 Days	>1250 psi (88 kg/cm2)
Tensile Strength ANSI 118.3-5.7 (ASTM C307) 7 Days	>2100 psi (148 kg/cm2)

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



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