



A-CRYLIC MORTAR ADMIXTURE

Acrylic Latex Liquid Additive for Mortars and Grouts

Product Information

Copyright © TEXAS CEMENT PRODUCTS, INC.



A-Crylic Mortar Admixture is an acrylic emulsion based liquid additive recommended for use in TexRite FloorMix, Wall Mix, Permabond FastSet, AR Grout, Dry Wall Grout, Floor Mud and conventional sand and cement mortars. When added in place of water, **Acrylic Mortar Admixture** significantly increases bond, tensile, and flexural strengths as well as

increase resistance to water, shock and vibration.

BASIC USE

A-Crylic Mortar Admixture is a latex-polymer liquid used in place of water, which increases both physical strength and adhesion of the mortar or grout. It can be applied as a primer on a variety of surfaces to increase the bonding of cement mortars. This product has a high latex-polymer concentration that enables a conventional dry-set mortar to bond high density tile (such as porcelain and glass tiles) or for installations over exterior grade plywood.

AREA OF USE

Suitable backings include interior and exterior concrete walls and floors, cementitious backer units (CBU), cured Portland cement mortar beds, ceramic tile, brick and marble. In interior dry areas, gypsum board, APA exterior glue plywood, vinyl composition tile and plastic laminate countertops are suitable backings.

LIMITATIONS

Do not use over hardwood, stripwood, Luan plywood, particle board, cushioned backed and urethane coated or perimeter bonded vinyl flooring, wall coverings, fiberglass, masonite, metal, adhesive residue or gypsum based mortar beds and underlayments. Do not use over frozen substrates and when temperatures will be below 50° F for 72 hours following installation. When used in wet areas (showers, swimming pools, spas etc.) subjected to continuous water exposure, allow a minimum of 14 days of air curing. This product decreases water absorption but does not form a waterproof barrier.

APPLICABLE STANDARDS

Use of TexRite **A-Crylic Mortar Admixture** following the instructions found on this information sheet will result in dry-set mortar installations conforming to ANSI A108.1, A108.5, A108.12 and will meet the material requirements for Latex Portland Cement Mortar A118.4 and A118.11. When mixed with grouts, installations will conform to ANSI A108.10 and will meet material requirements for Latex-Portland Cement Grout ANSI A118.7.

PACKAGING

COLOR: White liquid.
TEXTURE: Free-flowing liquid.
PACKAGING: 4/1 gallon bottles, 5 gallon pails, 55 gallon drum.

INSTALLATION

Preparatory Work

All surfaces on which ceramic tiles are to be set must be structurally sound and free from movement. Surfaces must be dry and free of all grease, oil, dust, dirt, curing compounds, sealers, coatings, efflorescence, cutback adhesive residue, gypsum based underlayment and other foreign matter. Detailed installation procedures are in the T.C.N.A. Handbook and ANSI A108.5.

Cementitious Substrates

Cleaning may be accomplished via mechanical sanding, scraping, or chipping. Surfaces cleaned with muriatic acid must be thoroughly flushed and neutralized. Smooth, steel troweled concrete floors must be roughened to insure a good bond. Dry, porous concrete may be dampened slightly before installing ceramic tile to improve application properties. Do not leave puddles or standing water on the surface. Substrate deflection shall not exceed L/360 of the span.

Non-Cementitious Substrates

Surfaces such as strip wood, old plaster or painted surfaces should be covered with a cleavage membrane topped with a 3/8" to 3/4" reinforced mortar bed for walls and a 1 1/4" reinforced mortar bed for floors. After a minimum of 20 hours, the dry-set mortar may be applied to the mortar bed.

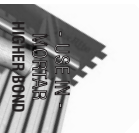
Plastic laminate and vinyl flooring shall be abraded and well bonded to its substrate. Note: Do not sand materials containing asbestos. Use a liquid stripper.

Plywood Substrates

Flooring systems, including framing system and subfloor panels, shall be in conformance with the IRC for residential applications, the IBC for commercial applications, or applicable building codes. Further, the flooring to receive tile should be exterior grade plywood only, secured with screw-type nails and glued where possible. Leave a gap of 3/16" between sheets of plywood and between the plywood edges and all the materials that they abut. This will allow for expansion. The gaps shall remain empty when the installation is complete. In addition, all wooden surfaces must be *interior use only* and *protected from exposure to water*.

Tile Over Tile and Other Surfaces

It is absolutely essential that the existing tile and other surfaces be well bonded. The surfaces must be prepared in accordance with the requirements for cementitious surfaces. It is also necessary to abrade the surface to assure proper bonding. Other surfaces include terrazzo and marble. Remove all waxes, sealers and coatings that would interfere with the bond.



A-CRYLIC MORTAR ADMIXTURE



TEXAS CEMENT PRODUCTS, INC.

4000 Pinemont
Houston, Texas 77018 USA

Phone: 713-682-8411
Toll Free: 800-669-0115
Fax: 713-688-2448
texrite.com & texascement.com

A-CRYLIC MORTAR ADMIXTURE

Acrylic Latex Liquid Additive for Mortars and Grouts



Product Information

Back - Page 2

Expansion Joints

Shall be installed in accordance with local building codes. See EJ 171 in T.C.N.A. Handbook for detailed specifications. Never bridge an expansion, contraction, or construction joint. Remove all thinset, mortar grout and debris from joints before sealant is placed.

Mixing

In a clean mixing container, add the dry-set mortar powder to **A-Crylic Mortar Admixture** at the rate of approximately 1 1/2 gallons per 50-pound bag. For grouts and other mortar mixes, first blend one part **Acrylic Mortar Admixture** with one part water and use this blend as a replacement for water at the ratio of one gallon per 50 lbs. If a mechanical mixer is used, it must be done at a lower RPM (300 or less) to avoid entrapping air into the mortar. Mix thoroughly until smooth and let mortar slake for 15 minutes, then remix. Immediately after slaking period, add latex or additional powder to adjust to proper consistency. 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. During use, remix mortar occasionally.

Application

Spread mortar with the flat side of trowel to key-in 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 the back of the tile and a subsequent mortar bed of 3/32" to 3/16". Prior to placing the tile, trowel the mortar in one direction to allow easier embedding of the tile and to achieve full coverage. With some 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 the tile be embedded sufficiently to obtain good transfer of mortar to tile and for proper alignment. Do not adjust tiles in mortar after they have been set past 15 minutes.

NOTE: As a practical test it is recommended that three or more separate twelve inch square areas of tile be bonded to the properly prepared surface with the actual tile and bonding material that will be used on the finished installation. These should be allowed to cure for three to seven days and then remove with hammer and chisel. At this point, one can determine if adequate bond has been obtained or if a bonding problem exist.

Coverage

Refer to directions on dry-set mortar and grout bags and product information sheets.

Cleaning

Water is all that is needed to remove uncured admixture and uncured mortar. Remove excess grout from surface of tile as soon as possible after grouting as acrylic modified mortar becomes extremely difficult to remove when dry.

Curing and Grouting

A minimum cure is obtained in 12 to 24 hours depending on ambient temperatures (ANSI A-108.5). Grouting can be done before the mortar takes its final set if caution is used not to break the plastic mortar bond to the tile. Normal grouting should be done 48 hours later.

SPECIFICATIONS

Technical Data: A-Crylic Mortar Admixture

Test	Typical Values
Compressive Strength	>4000 psi
Shear Bond Strength (ANSI A118.4) Vitreous Tile 28 day	>700 psi
Shear Bond Strength (ANSI A118.11) Over Plywood 28 day	>250 psi
Bucket Life @ 70°F	2-3 hours

Storage Life - one year, if kept in sealed container. Protect from freezing.

SAFETY – CAUTION: Avoid inhalation of vapors, use in well ventilated area. Avoid contact with eyes or skin. In case of eye contact, flush thoroughly with water, and call physician immediately. For contact with skin, wash with warm soapy water. If material is swallowed, call physician immediately. If any ill effects should occur, get medical attention promptly.

KEEP OUT OF REACH OF CHILDREN

A-CRYLIC MORTAR
ADMIXTURE