



3701 Mortar Admix

3701 Mortar Admix is a specially designed latex admixture for use with thin-set mortars, cement grouts, cement mortar beds, and other cement mixes.

Globally Proven
Construction Solutions



FEATURES/BENEFITS

- Interior and exterior installations
- Shock, chemical and frost resistant
- Increased bond and compressive strength
- Water resistant; suitable for submerged applications
- Superior flexibility
- "Extra Heavy Service" rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test).

USES

Used in place of water, 3701 Mortar Admix improves the working and physical properties of any cement mix and provides an easy way to make permanent, trouble-free installations of ceramic tile, brick and natural stone.

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd (Level 2, A3)
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STANDARDS/CERTIFICATIONS

- ASTM C109
- ASTM C413
- ASTM C348
- ASTM C62
- ASTM C627
- BS 13892-8
- BS 1881-121



This product has been certified green under the UL GREENGUARD Certification Program.

Suitable Substrates

- Concrete
- Cement mortar beds
- Ceramic tile and stone
- Cement backer board*
- Gypsum wallboard (interior only)
- Cement plaster
- Brick masonry
- Cement terrazzo
- Concrete masonry

* Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Packaging

20e /pail, 36 pails per pallet.

210e /drum, 4 drums per pallet.

Coverage

A drum of 3701 Mortar Admix will yield a coverage of about 67m² per 20mm thick when mixed with LATICRETE Thick Bed Mortar

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >0°C and <40°C.

Limitations

- Not for use as a thin-set mortar additive over exterior glue plywood.
- Use LATAPOXY® 300 Adhesive for installing green marble or water sensitive stone and agglomerates and resin backed tile and stone.
- Use a white thin-set mortar when installing white or light-colored stone.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane.

Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L = span length.

Cautions

Consult MSDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Wait 14 days after the final grouting period before filing water features with water at 21°C.
- Keep out of reach of children.

TECHNICAL DATA

Performance Properties

Mixed with 226/227 Thick Bed Mortar

Test	Test Method	Results
Compressive Strength	ASTM C109	>35N/mm ²
Water Absorption	ASTM C413	<4%
Flexural Strength	ASTM C348	>8N/mm ²
Tensile Adhesion Strength	BS 13892-8	>3N/mm ²
Modulus of Elasticity	BS 1881-121	>51000psi
TCNA Service Rating	ASTM C627	Extra Heavy

Working Properties

3701 Mortar Admix mixed with 226/227 Thick Bed Mortar

Properties	226	227
Pot Life (30°C)	~1 hour	~1.5 hour
Time to Light Traffic	>24 hours	N.A.

INSTALLATION

Surface Preparation

All surfaces should be between 8°C and 35°C and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds.

Rough or uneven concrete surfaces should be made smooth with LATICRETE Latex Portland Cement Underlayment to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface.

Note: Latex portland cement mortars do not require a minimum cure time for cement slabs. All slabs must be plumb and true to within 6 mm in 3 m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar.

Application

Mixing Mortar Bed

Use approximately 2.7e - 3.1e of 3701 Mortar Admix to 27kg of 226 Thick Bed Mortar.

Use approximately 4.0e - 4.5e of 3701 Mortar Admix to 27kg of 227 Thick Bed Mortar.

Place 3701 Mortar Admix in a clean plastic pail. Do not dilute. Add 226/227 Thick Bed Mortar to 3701 Mortar Admix and mix to a smooth, trowelable consistency. Allow mortar to slake for 3–5 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel. **Please do not mix other aggregates such as cement or sand etc to 3701 Mortar Admix.**

Bonded Mortar Bed—Installation

Before placing mortar, apply a slurry bond coat made from 4237 Latex Additive mixed with 211 Powder. While the slurry bond coat is wet,

spread the mortar and compact well. If placing tile immediately, apply a slurry bond coat to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well.

Unbonded Mortar Bed—Installation

Before placing mortar, place a cleavage membrane (e.g. 4 mil thick polyethylene sheeting or 15 lbs, builder felt) on the substrate. Place mortar over the cleavage membrane (approximately 1/2 the depth of the mortar bed). Next, place 50 mm x 50 mm, 16 gauge galvanized welded wire mesh over the mortar. Then, place the balance of the mortar bed. The wire mesh should be suspended in the middle of the mortar bed. Spread the mortar and compact well. Minimum mortar bed thickness shall be 50 mm. If placing tile immediately, apply a slurry bond coat, made from 4237 Latex Additive mixed with 211 Powder to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well.

Note: A slurry bond coat should also be applied to the edges of mortar beds installed from previous work periods.

Concrete Repair and Resurfacing—Leveling Mortar Consistency

Apply a slurry bond coat to all reinforcing steel and existing clean, sound and stable concrete surfaces just prior to placing the topping. While the slurry bond coat is wet and sticky place the topping mortar. Compact the surface of the mortar with a flat trowel and ensure all voids are filled. Avoid over troweling.

As a Thin-Set Additive

Use approximately 5.75e - 6.25e of 3701 Mortar Admix to 25 kg of 317 Floor & Wall Thin Set Mortar. Place 3701 Mortar Admix in a clean plastic pail. Do not dilute. Add 317 Floor & Wall Thin Set Mortar to 3701 Mortar Admix and mix to a smooth, trowelable consistency. Allow mortar to slake for 3–5 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

Thin-Set Mortar

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side.

Note: Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15–20 minutes. Back butter large tiles >300 x 300 mm to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove and replace with fresh mortar.

As a Grout Additive

Use approximately 4.4e - 4.8e of 3701 Mortar Admix to 20kg of 1500 Tri-Poly Fortified Sanded Grout or use approximately 5.8e - 6.2e of 3701 Mortar Admix to 20 kg of 1600 Tri-Poly Fortified Unsanded Grout . Add LATICRETE Grout to 3701 Mortar Admix and mix to a

smooth, stiff consistency. Use 3701 Mortar Admix full strength for exterior applications; dilute 1/1 with clean water for interior use.

Grout

Before starting to grout remove spacers and debris in grout joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Apply grout release or sealer if necessary. Refer to TDS 400 "LATICRETE Grout Trouble Shooting Guide" for more information on grouting. Grout installation after a minimum of 24 hours curing time at 21°C. Dampen tile surface with water. Spread with a sharp, firm rubber grout float. Work the grout paste into the joints until completely filled. Use diagonal strokes to pack the joints. Ensure that joint is filled and the grout is not just sitting on top (i.e. "bridging the joint").

Cold Weather Note:

The setting of portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting mortar use LATICRETE Thin-Sets with 101 Rapid Latex Admix. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note:

The evaporation of moisture in portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C.

Cleaning Mortar

Clean tools and tile work with water while mortar is fresh.

Grout Primary Cleaning

Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it diagonally across the joints and tile to avoid pulling out the material.

Grout Secondary Cleaning

Remove remaining grout with a damp sponge (not wet) or a damp towel. Work diagonally to the joints. Allow to dry. When the grout joints are firm polish the surface with a coarse nylon pad or coarse cloth and minimal water.

Note: Use caution when polishing soft glazed tiles or polished stone.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

For on-line distributor information, visit LATICRETE at se.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE South East Asia Pte Ltd warrants that 3701 Mortar Admix is free from manufacturing defect and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to the terms and conditions.

MAINTENANCE

LATICRETE and LATAPOXY materials are premium quality construction products requiring no maintenance to ensure performance. For aesthetic/hygienic reasons, LATICRETE and LATAPOXY grouts can be routinely cleaned with soap and water.

TECHNICAL SERVICES/ CONTACT**Technical Assistance**

Information is available by calling:

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Technical and safety literature

To acquire technical and safety literature, please visit our website at se.laticrete.com