



# LATICRETE® 3701 Mortar Admix

Data Sheet 231aus.0

## 1. PRODUCT NAME

LATICRETE® 3701 Mortar Admix

## 2. MANUFACTURER

LATICRETE Pty Ltd.  
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Footscray West. VIC. 3012.  
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## 3. PRODUCT DESCRIPTION

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

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

### Advantages

- Interior and exterior installations
- Shock, chemical and frost resistant
- Increased bond and compressive strength
- Water Resistant
- Superior Flexibility

### 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** - 20 litre pail, 36 pails per pallet

**Shelf Life** - Factory sealed containers of this product are guaranteed to be of first quality for five (5) years if stored at temperatures >0°C and <43°C.

### Limitations

- Use LATAPOXY® 300 Epoxy Adhesive for installing green marble or water sensitive natural stone and agglomerates.
- Use a white thin set mortar when installing white or light colored natural stones and agglomerates.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required,

use a LATICRETE Waterproof 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.

### Caution

- During cold weather, protect finished work from traffic until fully cured.
- Keep out of reach of children.

## 4. TECHNICAL DATA

**Applicable Standards**- Conforms to ANSI A-118.4-1999:

### Performance Properties

LATICRETE 3701 Mortar Admix mixed with LATICRETE 226 Thick Bed Mortar

Test/Test Method	Results
Water Absorption, ANSI A118.6-1999; H-4.4	<5%
Compressive Strength, ANSI A118.4-1999; F-6.1	34.5 MPa
TCA Service Rating ASTM C-627	Extra Heavy

LATICRETE 3701 Mortar Admix mixed with LATICRETE 272 Premium Floor N' Wall Thin-Set Mortar

Test/Test Method	Results
Shear Bond, Porcelain Tile, 28 day cure ANSI A118.4-1999; F-5.2.4	3.5 MPa
Shear Bond, Porcelain Tile, Water immersion ANSI A118.4-1999; F-5.2.3	2.1 MPa
Water Absorption, ANSI A118.6-1999; H-4.4	4 %max.
Compressive Strength, ANSI A118.4-1999; F-6.1	24.2 MPa
TCA Service Rating, ASTM C-627	Extra Heavy

### Working Properties

LATICRETE 3701 Mortar Admix mixed with LATICRETE 226 Thick Bed Mortar (21°C)

Pot Life	1 hour
Time to Foot Traffic	12 hours
Time to Heavy Traffic	72 hours
Wet Density	2166 kg/m <sup>3</sup>

LATICRETE 3701 Mortar Admix mixed with LATICRETE 272 Premium Floor N' Wall Thin-Set Mortar (21°C)

Open Time	1 hour
Pot Life	5 hours
Time to Heavy Traffic	24 hours
Wet Density	1720 kg/m <sup>3</sup>

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will vary depending upon site conditions.

## 5. INSTALLATION

**Surface Preparation** - All surfaces should be between 4°C and 32°C and structurally sound, clean and free of all laitance, dirt, oil, grease, loose peeling paint, concrete sealers, curing compounds or anything that may inhibit bond. 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 6mm in 3m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow Australian Standards and designers "Requirements for Expansion Joints" or TCA Detail EJ171 "Expansion Joints". Do not cover expansion joints with mortar. Glass Mesh Mortar Unit: follow TCA installation detail W244.

**Mixing- Stir LATICRETE 3701 Mortar Admix thoroughly before use.**

**As a mortar bed additive** - Use approximately 2 litres of LATICRETE 3701 Mortar Admix to 20 kg of LATICRETE 226 Thick Bed Mortar. Add LATICRETE 226 Thick Bed Mortar to LATICRETE 3701 Mortar Admix and mix slowly. Adjust mixture to produce a semi-dry consistency. Mix ratio may vary dependant upon weight of finish.

**As a thin-set additive** - Use approximately 5.5 litres of LATICRETE 3701 Mortar Admix to 20 kg of LATICRETE Thin-Set Mortar. Place LATICRETE 3701 Mortar Admix in a clean plastic pail. Do not dilute. Add LATICRETE Thin-Set mortar to LATICRETE 3701 Mortar Admix and mix to a smooth, trowelable consistency. Allow mortar to slake for 5-10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

**As a grout additive** - Use approximately 4 litres of LATICRETE 3701 Mortar Admix to 20 kg of LATICRETE Sanded Grout. Add LATICRETE Sanded Grout to LATICRETE 3701 Mortar Admix and mix to a smooth, stiff consistency. Use LATICRETE 3701 Mortar Admix full strength for exterior applications; dilute 1/1 with clean water for interior use.

#### **Application**

**Mortar Bed** - Before placing mortar, apply a slurry bond coat made from LATICRETE 4237 Latex Thin-set Mortar Additive mixed with LATICRETE 211 Crete Filler Powder or pure Portland cement. While the slurry bond coat is wet spread the mortar and compact well. If placing tile immediately, apply a slurry bond coat, made from LATICRETE 4237 Latex Thin-Set Mortar Additive mixed with LATICRETE 211 Crete Filler Powder, to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well.

**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 insure full bedding of the tile. Spread as much mortar as can be covered with tile in 15-20 minutes. Back butter large tiles >200 x 200mm to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to imbed 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.

**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 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. Insure that joint is filled and 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 LATICRETE 101 Rapid Set 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.

## **6. AVAILABILITY AND COST**

#### **Availability**

LATICRETE® and LATAPOXY® materials are available worldwide. To find a Distributor in your area, call:

Toll Free: 1800331012

Telephone: 03 99336111

For on-line distributor information, visit LATICRETE at [www.LATICRETE.com](http://www.LATICRETE.com).

**Cost** - Contact a LATICRETE/LATAPOXY Distributor in your area.

## **7. WARRANTY**

LATICRETE warrants that LATICRETE 3701 Mortar Admix is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of ten (10) years from date of purchase subject to the terms and conditions stated in Data Sheet 230.10P LATICRETE Product Warranty. In addition, when used as a component of a LATICRETE System Installation, LATICRETE 3701 Mortar Admix is warranted for a period of ten (10) years from the date of purchase subject to the terms and conditions stated in Data Sheet 230.10S LATICRETE System Warranty.

## **8. 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.

## **9. TECHNICAL SERVICES**

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