



Laticrete 3701 Mortar Admix

DS-239.2.0913

Globally Proven
Construction Solutions

1. PRODUCT NAME

LATICRETE® 3701 Mortar Admix

2. MANUFACTURER

LATICRETE UK

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United Kingdom

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3. PRODUCT DESCRIPTION

LATICRETE 3701 Mortar Admix is a specially designed latex admixture for use with a wide range of 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.** It 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; suitable for submerged applications.
- Superior flexibility.
- Extra Heavy Service™ rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test).

Suitable Substrates

(When mixed only with LATICRETE 3701 Mortar Admix)

- Concrete
- Ceramic tile & stones
- Concrete & Brick masonry
- Exterior WBP glue plywood*
- Cement mortar beds
- Cement backer board**
- Cement plaster & Cement terrazzo * For interior only, minimum 2" (50 mm) over cleavage membrane with wire reinforcing

** Consult cement backer board manufacturer for

Packaging

Supplied in a 5 litre & 19 litre pail; 120 & 36 pails per pallet respectively.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for five (5) years* if stored at temperatures >32°F (0°C) and <110°F (43°C).

Limitations

- Not for use as a thin-set mortar additive over exterior glue plywood.
- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- 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 (see Section 10 FILING SYSTEMS).

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 (except where local building codes specify more stringent deflection requirements)

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 70°F (21°C).
- Keep out of reach of children.

4. TECHNICAL DATA

Performance Properties

LATICRETE® 226 Thick Bed Mortar mixed with LATICRETE 3701

Test/Test Method	Results
Water Absorption ANSI A118.6-4.4	<5%
Compressive Strength ANSI A118.4-6.1	33.8-34.5 N/mm2
TCNA Service Rating ASTM C627	Extra Heavy

Working Properties at 21°C

LATICRETE 226 Thick Bed Mortar mixed with LATICRETE 3701

Pot Life	1 hour
Time to Foot Traffic	12 hours
Time to Heavy Traffic	72 hours
Wet Density	2166 kg/m3

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

VOC/LEED Product Information



Products in finished form. Total VOC Content pounds/gallon (grams/liter) of product in unused form is 0.00 lb/gal (0.00 g/l).

This product has been GREENGUARD Indoor Air Quality Certified by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting

5. INSTALLATION

Surface Preparation

All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, laitance, paint, concrete sealers or curing compounds. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. 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

Mortar Bed Mixing Mortar Bed—Dry Pack Consistency for floors

Mix a 25 kg bag of LATICRETE 226 Thick Bed Mortar to 2.5 ℓ of LATICRETE 3701 Mortar Admix. Or 19 ℓ of LATICRETE 3701 Mortar Admix mixes with approximately 7 bags of LATICRETE 226 Thick Bed Mortar, yielding approximately 4 m² @ 1" 25 mm thick. Mix to a stiff, semi-dry consistency (refer to bag for mixing hints). Mix ratio may vary dependent upon weight of finish.

Bonded Mortar Bed—Installation

Before placing mortar, apply a slurry bond coat made from LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 Powder. While the slurry bond coat is wet, spread the mortar and compact well. If placing tile immediately, apply a slurry bond coat, made from either LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 Powder to the mortar. While the slurry bond coat is wet and sticky, place the tile and beat in well. Refer to TDS 143 Slurry Bond Coats - When & What Use for more information on slurry bond coats.

Unbonded Mortar Bed—Installation

Before placing mortar, place a cleavage membrane (e.g. 4 mil thick polyethylene sheeting or 15 lb, builder felt) on the substrate. Place mortar over the cleavage membrane (approximately 1/2 the depth of the mortar bed). Next, place 2" x 2" (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 2" (50 mm). If placing tile immediately, apply a slurry bond coat, made from either LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 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.

Application

Wall Renders

Mixing Wall Renders

Mix a 25 kg bag of LATICRETE 226 Thick Bed Mortar to 3.6 ℓ of LATICRETE 3701 Mortar Admix. 19 litres of LATICRETE 3701 Mortar Admix mixes with approximately 5 bags of LATICRETE 226 Thick Bed Mortar, yielding approximately 64 ft² (5.8 m²) @ 1/2" (12 mm) thick. Mix to a plastic consistency.

Wall Renders—Installation

No slurry bond coat is required prior to placing wall renders.

Apply wall render with a steel trowel pressing mortar into good contact with the substrate. Apply “scratch coat” first – not to exceed 12 mm thickness. Scratch mortar before it hardens. After “scratch coat” hardens, apply the “brown or float coat” working the mortar into good contact with the scratch coat. Do not exceed 15 mm thickness per lift. Scratch all lifts that will receive additional float coats. Float wall with steel trowel and straight edges to form a plumb and true mortar surface. Allow the completed render coats to cure for 24 hours at 70°F (21° C) prior to the installation of tile.

Application

Concrete Repair and Resurfacing—Leveling Mortar Consistency Mixing Leveling Mortars

Mix a 25 kg bag of LATICRETE 226 Thick Bed Mortar to 3.5 ℓ of LATICRETE 3701 Mortar Admix. 19 litres of LATICRETE 3701 Mortar Admix mixes with approximately 5 bags of LATICRETE 226 Thick Bed Mortar, yielding approximately 5.8 m² @ 12 mm thick. Mix to a plastic consistency. Mix ratio may vary dependent upon weight of finish.

Concrete Repair and Resurfacing— Installation

Before placing mortar, apply a slurry bond coat made from LATICRETE 254 Platinum or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 Powder. Apply a slurry bond coat to all reinforcing steel and existing clean, sound and stable concrete surfaces just prior to placing the mortar. 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.

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

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.

Hot Weather Note: The evaporation of moisture in portland cement mortars is accelerated by hot, dry conditions. Apply mortar to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 90°F (32°C).

Thin-Set Mortar Mixing As a Thin-Set Additive

Use approximately 5.3–6.2 ℓ of LATICRETE® 3701 Mortar Admix to any 20 kg bag of an un-modified 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.

Installation

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.

Cleaning

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

6. AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide. For on-line Distributor Information, call 0151 486 6101 or visit LATICRETE UK at www.laticrete.co.uk

7. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

8. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE UK Technical Service Hotline:

Tel: 0151 486 6101

Fax: 0151 448 1982

e-mail: sales@laticrete.co.uk

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.co.uk

9. DISCLAIMER

The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.

This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information.

The use of this product is beyond our control and liability is assumed by the user when used incorrectly and not in accordance with LATICRETE guidelines.

The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.

The specifier or other party responsible for the project must ensure that the details in this data sheet are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification.

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