



Globally Proven
Construction Solutions

3810 Thin Set Mortar Additive

3810 Thin Set Additive is an extraordinarily flexible latex additive used in place of water with thin set mortars and other cement mixes for installing ceramic tile, brick, natural stone and porcelain tile. 3810 Thin Set Additive mix is more flexible and is stronger than conventional Portland cement mortars.



FEATURES/BENEFITS

- Non-flammable.
- Increased flexibility.
- Improved impact resistance

USES

Used as a latex additive with 211 Crete Filler Powder for interior and exterior floor and wall installations of all types of ceramic tiles, porcelain tile and stone over concrete, masonry, brick wall and a variety of substrates.

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd (Level 2, A3)
No. 38 Sungei Kadut, Street 2, Singapore 729245
Telephone: +65 6515 3028 Fax: +65 6515 3037
Internet: se.laticrete.com

STANDARDS/CERTIFICATIONS

- BS EN 1348
- BS EN 1346
- BS EN 1308
- ANSI A118.4, American National Standard Specifications for Modified Dry-Set Cement Mortar



This product has been certified green under the Singapore Green Building Council.

Suitable Substrates

- Concrete
- Cement Mortar Beds
- Cement Plaster
- Cement Backer Board
- Drywall Board*
- Concrete Masonry
- Ceramic Tile and Stone
- Brick Masonry
- Cement Terrazzo

* Consult Laticrete Technical Services for more information.

Packaging

20e /pail, 36 pails per pallet.

Coverage

A pail of 3810 Thin Set Mortar Additive will yield a coverage of 27 - 29m² when mixed with 211 Crete Filler Powder using a 6mm x 6mm square notch trowel.

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

- Keep from freezing.
- Do not use on Masonite, wood products or metal surfaces.
- Use LATAPOXY 300 Epoxy Adhesive when installing green marble or water sensitive natural stone and agglomerates.
- Adhesives / mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When waterproofing membrane is required, use a LATICRETE Waterproofing Membrane.
- Marble and other Natural Stone Flexural Strength Requirement: Where marble and other natural stone is to be installed, the substrate deflection under all live and dead loads shall not exceed L/720 (L=span length).

Cautions

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

TECHNICAL DATA

Performance Properties

3810 Thin Set Mortar Additive mixed with 211 Crete Filler Powder.

Test	Test Method	Specification	Results
Tensile Adhesion Strength (28 days)	EN 1348	≥1N/mm ²	>2N/ mm ²
Tensile Adhesion after Water Immersion (28 days)	EN 1348	≥1N/mm ²	>1.4N/ mm ²
Tensile Adhesion after Heat Ageing (28 days)	EN 1348	>1N/mm ²	>1.6N/ mm ²
Open Time (30mins)	EN 1346	≥0.5N/mm ²	>1.3N/ mm ²
Shear Bond Strength	ANSI A118.4	≥0.5N/mm ²	>1.9 N/ mm ²
Slip Resistance	EN 1308	≤0.5mm	<0.4mm

Working Properties

3810 Thin Set Mortar Additive mixed with 211 Crete Filler Powder.

Open Time (25°C)	30 minutes
Pot Life (25°C)	2 hours
Time to Light Traffic	24 hours

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.

INSTALLATION

Surface Preparation

All surfaces should be between 8°C and 35°C and structurally sound, clean and free of all laitance, efflorescence, dirt, oil, grease, loose peeling 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. New concrete slabs shall be damp cured and 28 days old before application. 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 ANSI Specification AN-3.8 "Requirements for Expansion Joints" or TCA Detail E1171-91 "Expansion Joints". Do not cover expansion joints with mortar.

Mixing

Use approximately 5.6e - 6.0e of 3810 Thin Set Mortar Additive to 23kg of 211 Crete Filler Powder.

Place 3810 Thin Set Mortar Additive in a clean plastic pail. Do not dilute. Add 211 Crete Filler Powder to 3810 Thin Set Mortar Additive 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 3810 Thin Set Mortar Additive.**

***Actual mix ratio & field performance will depend on application methods, site condition and temperature.**

Application

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. It is essential that enough mortar is used to completely cover the back of the tile with a minimum 2mm to 3mm uniform thickness. Spread as much mortar as can be covered with tile in 15-20 minutes. Back butter large tiles (>300mm x 300mm) to provide full bedding and firm support. Place tiles into place with a slight twisting motion and beat in using a beating block and rubber mallet to imbed tile and adjust level.

Check mortar for complete average by periodically removing a tile and inspecting bedding mortar transfer onto back of tile.

Grouting

Grout installation after a minimum of 24 hours curing time at 21°C. Grout with Tri-Poly Fortified Sanded or Unsanded Grout mixed with 1776 Grout Enhancer. For maximum stain resistance use SpectraLOCK Pro Grout.

Cleaning

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

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 3810 Thin Set Mortar Additive is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to terms and conditions stated.

MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

TECHNICAL SERVICES/ CONTACT**Technical Assistance**

Information is available by calling:

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Email: enquiry@laticrete.com.sg

Technical and safety literature

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