



# 226 Thick Bed Mortar

DS-239.1-1216

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

226 Thick Bed Mortar

## 2. MANUFACTURER

LATICRETE International, Inc.  
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## 3. PRODUCT DESCRIPTION

226 Thick Bed Mortar is a factory prepared blend of carefully selected raw materials, portland cement and graded aggregates. 226 Thick Bed Mortar was designed for use with 3701 Mortar Admix to produce a latex portland cement mortar that has exceptional strength. 3701 Fortified Mortar Bed is an approved substitute for 226 Thick Bed Mortar mixed with 3701 Mortar Admix.

### Uses

For interior and exterior use for preparing conventional thick cement mortar beds, cement plasters, and concrete repairs.

### Advantages

- Premixed-No jobsite blending of powders required
- Safe-Non-flammable; safe to store and mix
- Economical-saves time and money
- Easy to Use-no special tools required
- Versatile-wet and dry areas, walls, floors, ceilings, interior and exterior
- High Strength Formula
- "Extra Heavy Service" rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test).

### Suitable Substrates

(When mixed with 3701 Mortar Admix)

- Concrete
- Ceramic tile & stones
- Concrete masonry
- Brick masonry
- Exterior 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 specific installation recommendations and to verify acceptability for exterior use.

### Packaging

60 lbs (27.3 kg) bag; 56 bags per pallet

### Shelf Life

Advanced plastic bag provides two (2) year shelf life (non-rapid versions only).

\*\*\* High humidity will reduce the shelf life of bagged product.

### Limitations

- Use LATAPOXY® 300 Adhesive for 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 a waterproofing membrane is required, use a LATICRETE® Waterproofing Membrane (see Section 10 FILING SYSTEMS).

### Cautions

Consult MSDS for more information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

## 4. TECHNICAL DATA

### VOC/LEED Product Information



This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program. For Chemical Emissions. For Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

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

### Performance Properties

226 Thick Bed Mortar mixed with 3701 Mortar Admix

Test/Test Method	Results
Water Absorption ANSI A118.6-4.4	<5%
Compressive Strength ANSI A118.4-6.1	4000-5000 psi (33.8-34.5 MPa)
TCNA Service Rating ASTM C627	Extra Heavy

### Working Properties

226 Thick Bed Mortar mixed with 3701 Mortar Admix (70°F [21°C])

Pot Life	1 hour
Time to Foot Traffic	12 hours
Time to Heavy Traffic	72 hours
Wet Density	135 lbs/ft <sup>3</sup> (2166 kg/m <sup>3</sup> )

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.

## 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 60 lb bag (27 kg) of 226 Thick Bed Mortar to 0.7 gal (2.7 l) of 3701 Mortar Admix. Five (5) gallons (19 l) of 3701 Mortar Admix mixes with approximately 7 bags of 226 Thick Bed Mortar, yielding approximately 45 ft<sup>2</sup> (4 m<sup>2</sup>) @ 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 254 Platinum or 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, made from either 254 Platinum or 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. 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 254 Platinum or 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.

### Application

#### Wall Renders

##### Mixing Wall Renders

Mix a 60 lb bag (27 kg) of 226 Thick Bed Mortar to 1 gal (3.8 L) of 3701 Mortar Admix. Five (5) gallons (19 L) of 3701 Mortar Admix mixes with approximately 5 bags of 226 Thick Bed Mortar, yielding approximately 64 ft<sup>2</sup> (5.8 m<sup>2</sup>) @ 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 1/2" (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 5/8" (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 60 lb bag (27 kg) of 226 Thick Bed Mortar to 1 gal (3.8 L) of 3701 Mortar Admix. Five (5) gallons (19 L) of 3701 Mortar Admix mixes with approximately 5 bags of 226 Thick Bed Mortar, yielding approximately 64 ft<sup>2</sup> (5.8 m<sup>2</sup>) @ 1/2" (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 254 Platinum or 4237 Latex Additive mixed with 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).

### 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 Distributor information, call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line Distributor information, visit LATICRETE at

[www.laticrete.com](http://www.laticrete.com).

### Cost

Contact a LATICRETE Distributor in your area.

## 7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE Product Warranty (United States and Canada)

A component of:

DS 230.05: LATICRETE 5 Year Tile & Stone Warranty (United States and Canada)

DS 230.15: LATICRETE 10 Year Tile & Stone Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year Tile & Stone Warranty (United States and Canada)

## 8. 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.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 235

Telephone: +1.203.393.0010, ext. 235

Fax: +1.203.393.1948

### Technical and Safety Literature

To acquire technical and safety literature, please visit our website at [www.laticrete.com](http://www.laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [www.laticrete.com](http://www.laticrete.com). The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty (United States and Canada)

DS 230.05: LATICRETE 5 Year Tile & Stone Warranty (United States and Canada)

DS 025.0: LATICRETE 25 Year Tile & Stone Warranty (United States and Canada)

DS 231.0: 3701 Mortar Admix

DS 236.0: 9235 Waterproofing Membrane

DS 230.1: 4237 Latex Additive

DS 239.0: 211 Powder

DS 677.0: 254 Platinum

TDS 143: Slurry Bond Coats When and What to Use

DS 663.0: HYDRO BAN®

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