



226 Thick Bed Mortar

DS-239.1-1111



1. PRODUCT NAME

LATICRETE® 226 Thick Bed Mortar

2. MANUFACTURER

LATICRETE International, Inc.

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3. PRODUCT DESCRIPTION

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

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year* if stored off the ground in a dry area.

* 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 GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting 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).

Performance Properties

LATICRETE 226 Thick Bed Mortar mixed with LATICRETE 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

LATICRETE® 226 Thick Bed Mortar mixed with LATICRETE 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 ³ (2166 kg/m ³)

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 LATICRETE 226 Thick Bed Mortar to 0.7 gal (2.7 l) of LATICRETE 3701 Mortar Admix. Five (5) gallons (19 l) of LATICRETE 3701 Mortar Admix mixes with approximately 7 bags of LATICRETE 226 Thick Bed Mortar, yielding approximately 45 ft² (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.

Application

Wall Renders

Mixing Wall Renders

Mix a 60 lb bag (27 kg) of LATICRETE 226 Thick Bed Mortar to 1 gal (3.8 l) of LATICRETE 3701 Mortar Admix. Five (5) gallons (19 l) 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 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 LATICRETE 226 Thick Bed Mortar to 1 gal (3.8 l) of LATICRETE 3701 Mortar Admix. Five (5) gallons (19 l) 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. 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).

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.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year Systems Warranty

DS 230.15: LATICRETE 10 Year System Warranty for Steel or Wood Framed Exterior Facades

DS 025.0: LATICRETE 25 Year System Warranty

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 (hours 8:00 AM to 5:30 PM EST):

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.

10. FILING SYSTEM

Additional product information is available on our website at www.laticrete.com. The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty
DS 230.05: LATICRETE 5 Year Systems Warranty
DS 025.0: LATICRETE 25 Year System Warranty
DS 231.0: LATICRETE 3701 Mortar Admix
DS 236.0: LATICRETE 9235 Waterproofing Membrane
DS 230.1: LATICRETE 4237 Latex Additive
DS 239.0: LATICRETE 211 Powder
DS 677.0: LATICRETE 254 Platinum
TDS 143: Slurry Bond Coats When and What to Use
DS 663.0: LATICRETE Hydro Ban®