

## 1. PRODUCT NAME

LATICRETE® 317 Floor N' Wall Thin Set Mortar

## 2. MANUFACTURER

LATICRETE International, Inc.

1 LATICRETE Park North

Bethany CT 06524-3423 USA

Telephone: (203) 393-0010 ext. 235

Toll Free: (800) 243-4788 ext. 235

FAX: (203) 393-1684

Fax on Demand: (800) 359-3297

Internet: www.laticrete.com

## 3. PRODUCT DESCRIPTION

LATICRETE 317 Floor N' Wall Thin Set Mortar is a bagged cementitious powder to be mixed with either water or latex admixtures for installing ceramic tile and natural stone using the thin-set method of installation.

Must fortify with LATICRETE 333 Super Flexible Additive or LATICRETE 3701 Mortar Admix for exterior use, impervious tiles, porcelain, mosaic, glass and stone tiles, and heavy traffic areas.

### Uses

Designed for floors and walls, interior and exterior applications.

### Advantages

- Excellent non-sag formula for wall applications
- Smooth, easy to trowel formula
- Dual purpose, for walls and floors

### Suitable Substrates

- Concrete
- Ceramic Tile and Stones\*\*\*
- Exterior Grade Plywood\*\*
- Concrete Masonry
- Brick Masonry
- Cement Mortar Beds
- Cement Backer Board\*\*\*\*
- Gypsum Wallboard\*
- Cement Plaster
- Cement Terrazzo

\*Interior Use Only

\*\*When mixed with LATICRETE 333 Super Flexible Additive. Interior use only.

\*\*\*When mixed with LATICRETE 3701 Mortar Admix.

\*\*\*\*Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

### Packaging

25 lb (11.3 kg) bags, 100 bags per pallet

50 lb. (22.7 kg) bags, 54 bags per pallet

Colors: grey and white.

### Coverage

Approximately 75-90ft<sup>2</sup> (7.0-8.4 m<sup>2</sup>) per 50 lb. (22.7 kg.) bag with 1/4" x 1/4" (6mm x 6 mm) square notch trowel.

Approximately 55-65 ft<sup>2</sup> (5.1-6 m<sup>2</sup>) per 50 lb. (22.7 kg.) bag with 1/4" x 3/8" (6mm x 9mm) square notch trowel.

### 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.

### Limitations

- For green or other moisture sensitive marbles, use LATAPOXY® 300 Epoxy Adhesive.

- For light colored marble or stone, use LATICRETE 317 Floor N' Wall Thin-Set Mortar: white.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier is required, use a LATICRETE Waterproof Membrane (see Section 10 Filing Systems).
- For exterior use, fortify with LATICRETE 333 Super Flexible Additive or LATICRETE 3701 Mortar Admix.
- 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.

### Cautions

- Protect finished work from traffic or damage by other trades for an extended period of time during cold weather conditions. At room temperature conditions 70°F (20°C), protect overnight.
- 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

### Applicable Standards

ANSI A118.1- 1999

### Performance Properties

LATICRETE 317 Floor N' Wall Thin-Set Mortar  
when mixed with Water

Test/Test Method	Results
Shear Bond, Porcelain Tile, 28 day cure ANSI A118.1-1999; C-5.2.4	>150 psi (1 MPa)
Shear Bond, Porcelain Tile, Water immersion ANSI A118.1-1999; C-5.2.3	>100 psi (0.7 MPa)
Water Absorption ANSI A118.6- 1999; H-4.4	14%
Compressive Strength ANSI A118.4-1999; F-6.1(modified)	2000 psi (13.8 MPa)

### Working Properties

LATICRETE 317 Floor N' Wall Thin-Set Mortar  
when mixed with Water (70°F(21°C))

Open Time	60 minutes
Pot Life	4 hours
Time to Heavy Traffic	24 hours
Wet Density	108 lbs/ft <sup>3</sup> (1732 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, 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.

\*Note: Latex Portland Cement Mortars do not require a minimum cure time for concrete slabs. All slabs must be plumb and true to within ¼”(6mm) in 10 ft(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 EJ171 “Expansion Joints”. Do not cover expansion joints with mortar. Glass Mesh Mortar Unit: follow TCA installation detail W244.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length;

2. Minimum construction for interior plywood floors: **SUBFLOOR:** 5/8” (15mm) thick exterior grade plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16” (400 mm) o.c. maximum; fasten plywood 6” (150mm) o.c. along sheet ends and 8” (200mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8” (3mm) between sheet ends and ¼” (6mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive; **UNDERLAYMENT:** 5/8” (15mm) thick exterior grade plywood fastened 6” (150mm) o.c. along sheet ends and 8” (200mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8” (3mm) to ¼” (6mm) between sheets and ¼” (6mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 “Requirements for Direct Bonding of Ceramic or Stone Tiles Over Wood Floors” for complete details.

3. **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces. **For white and light colored marbles use LATICRETE® 220 Marble and Granite Mortar WHITE. For green and moisture sensitive marbles, use LATAPOXY® 300 Epoxy Adhesive, refer to Data Sheet 633.0.**

### Mixing - Stir LATICRETE 317 Floor N’ Wall Thin-Set Mortar thoroughly before use.

Place clean, potable water or a LATICRETE latex admix into a clean pail. Add LATICRETE 317 Floor N’ Wall Thin-Set Mortar. Use approximately 1.5-1.75 gallons (5.7-6.6l) of water for 50 lbs (22.7 kg) of powder. Note: For improved bond strength, flexibility and for exterior installations use LATICRETE 3701 Mortar Admix. For interior installations to plywood use LATICRETE 333 Super Flexible Additive. For rapid “Open to Traffic” installations use LATICRETE 101 Rapid Set Latex Admix. Mix by hand or with a slow speed mixer 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.

Data sheets are subject to change without notice, for latest revision check our website.

### 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. Spread as much mortar as can be covered with tile in 15-20 minutes. Back butter large tiles > 8”x8” (>200mm 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.

### Grouting

Grout installation after a minimum of 24 hours curing time at 70°F(21°C). Grout with LATICRETE 1500 or 1600 Tri-Poly Fortified Grout or LATICRETE Sanded or Unsanded Grout mixed with LATICRETE 1776 Grout Admix Plus. For maximum stain resistance use LATAPOXY SP-100 Stainless Grout For Floors N’ Walls.

### 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: (800) 243-4788

Telephone: (203) 393-0015

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 International warrants that LATICRETE 317 Floor N’ Wall Thin-Set Mortar is free from manufacturing defects and will not to 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 in Data Sheet 230.13 LATICRETE Product Warranty (see 10. FILING SYSTEM). In addition, when used as a component of a LATICRETE System Installation, that LATICRETE 317 Floor N’ Wall Thin-Set Mortar, is warranted for a period of ten (10) years from the date of purchase subject to the terms and conditions stated in Data Sheet 230.12 LATICRETE System Warranty (see 10. FILING SYSTEM).

## 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: (800) 243-4788 ext. 235

Telephone: (203) 393-0015 ext. 235

FAX: (203) 393-1948

### **Technical and safety literature**

To receive data via fax 24 hours 7 days, call:

- (800) 359-3297 or (203) 393-0015, ext. 360
- To receive a Material Safety Data Sheet, enter Fax on Demand code **8027**.

## 10. FILING SYSTEM

Additional product information available upon request:

DS 266.0: LATICRETE 333 Super Flexible Additive  
(Fax on Demand Code 2660)

DS 231.0: LATICRETE 3701 Mortar Admix  
(Fax on Demand Code 2310)

DS 236.0: LATICRETE 9235 Waterproofing Membrane,  
(Fax On Demand Code 2360)

DS 631.0: LATAPOXY SP-100 Stainless Grout  
(Fax On Demand Code 6310)

DS 254.0: LATICRETE 500/600 Sanded Grout  
(Fax On Demand Code 2540)

DS 317.0: LATICRETE 317 Floor N' Wall  
Thin-Set Mortar  
(Fax on Demand Code 3170)

DS 231.0: LATICRETE 3701 Mortar Admix  
(Fax on Demand Code 2310)

DS 264.0: LATICRETE 101 Rapid-Set Latex Admix  
(Fax on Demand Code 2640)

DS 256.0: LATICRETE Tri-Poly Fortified Sanded Grout  
(1500 Series)  
(Fax on Demand Code 2560)

DS 258.0: LATICRETE Tri-Poly Fortified Unsanded Grout  
(1600 Series)  
(Fax on Demand Code 2560)

DS 230.13: LATICRETE Product Warranty  
(Fax on Demand Code 3013)

DS 230.12: LATICRETE 10 Year System Warranty  
(Fax on Demand Code 3012)

TDS 152: Installing Ceramic Tile Over Wood  
Floors  
(Fax On Demand Code 1254)



***Globally proven.  
Professionally endorsed.***

### **LATICRETE INTERNATIONAL, INC.**

1 LATICRETE PARK NORTH • BETHANY, CT 06524-3423 USA

TEL: (203) 393-0010 • (800) 243-4788

FAX: (203) 393-1684 • FAX ON DEMAND: (800) 359-3297

**www.laticrete.com • support@laticrete.com**

**LATICRETE MIDDLE EAST** Tel: (971) 7 244 6396 Fax: (971) 7 244 5915

**LATICRETE ASIA PACIFIC** Tel: (65) 6262-4237 Fax: (65) 6262-3701

**LATICRETE EUROPE** Tel: (34) 966 491 908 Fax: (34) 966 491 909

**LATICRETE LATIN AMERICA** Tel: (203) 393-0010, EXT. 218 Fax: (203) 393-1684

©2003 LATICRETE INTERNATIONAL, INC.

LATICRETE, LATAPOXY and the  logo are Registered Trademarks of LATICRETE International, Inc.

Data sheets are subject to change without notice, for latest revision check our website.

LDS3170/MTB/Rev.06/27/03