



Floor Adhesive

DS-149.0-0909



1. PRODUCT NAME

LATICRETE® Floor Adhesive

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

LATICRETE Floor Adhesive is an economical bagged cementitious powder. LATICRETE Floor Adhesive is mixed with water for installing ceramic tile and natural stone using the thin-set method of installation.

Uses

Designed for interior installation of ceramic tile and stone for floors.

Suitable Substrates

- Concrete
- Cement mortar beds
- Concrete masonry
- Brick masonry

Packaging

50 lb (22.7 kg) bag; 48 bags per pallet

Colors: Grey

Coverage

Approximately 60–70 ft² (5.5–6.5 m²) per 50 lb (22.7 kg) bag with 1/4" x 1/4" (6 mm x 6 mm) square notch trowel.

Approximately 40–50 ft² (3.7–4.6 m²) per 50 lb (22.7 kg) bag with 1/4" x 3/8" (6 mm x 9 mm) 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.

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

Limitations

- Not for walls.
- Not for use with porcelain tile
- Use LATAPOXY® 300 Adhesive for green marble, water sensitive stone and agglomerates and resin backed tiles and 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 LATICRETE WaterTight™ Floor N'Wall Waterproofing & Crack Isolation 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.
- See data sheets 231.0 and 266.0 for specific recommendations.
- Do not bond to OSB, particle board, luan, Masonite® or hardwood surfaces.
- Not for use in submerged applications.

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 [21°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.
- Use a white mortar for white and light-colored marbles and stones.
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard ANSI A118.1

Performance Properties

LATICRETE Floor Adhesive mixed with water

Test	Test Method	Results	Specification
28 day Cure Porcelain Tile Shear Strength	ANSI A118.1 5.2.4	175–200 psi (1.2–1.37 MPa)	>150 psi (1.0 MPa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.1 5.2.3	100–200 psi (0.69–1.37 MPa)	>100 psi (0.69 MPa)
7 day Cure Porcelain Tile Shear Strength	ANSI A118.1 5.2.2	150–200 psi (1.0–1.37 MPa)	>150 psi (1.0 MPa)

From report on NAP245

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.

Working Properties

LATICRETE® Floor Adhesive mixed water at (70°F [21°C])

Open Time	20 minutes
Pot Life	2–4 hours
Time to Heavy Traffic	24 hours
Wet Density	16.5 lb/gal (1.98 g/ml)

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, paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with LATICRETE 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 1/4" (6 mm) in 10 ft (3 m). 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.

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

Mixing

Stir LATICRETE Floor Adhesive thoroughly before use. Place clean, potable water into a clean pail. Add LATICRETE Floor Adhesive. Use approximately 1.2–1.5 gallons (4.5–5.7 ℓ) of water for 50 lbs (22.7 kg) of powder.

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 ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 10 minutes. Back butter large tiles >8" x 8" (>200 mm x 200 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.

Grouting

Grout installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with LATICRETE 1500 Sanded Grout or LATICRETE 1600 Unsanded Grout mixed with LATICRETE 1776 Grout Enhancer. For maximum stain resistance use LATICRETE SpectraLOCK® Grout. United States Invention Patent No.: 6881768 (and other Patents)

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. For faster setting mortar use LATICRETE Multipurpose R. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note: The evaporation of moisture in portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 95°F (35°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

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 available upon request:

DS 230.13: LATICRETE Product Warranty

DS 660.0: LATICRETE WaterTight™ Floor N'Wall Waterproofing & Crack Isolation

DS 633.0: LATAPOXY 300 Adhesive

DS 265.0: LATICRETE 1776 Grout Enhancer

DS 296.4: LATICRETE Multipurpose R

DS 256.0: LATICRETE 1500 Sanded Grout

DS 258.0: LATICRETE 1600 Unsanded Grout

DS 685.0: LATICRETE SpectraLOCK® Grout

United States Invention Patent No.: 6881768 (and other Patents)

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