



125 Sound & Crack Adhesive

(Patent Pending)

DS-204.0-0310



1. PRODUCT NAME

LATICRETE® 125 Sound & Crack Adhesive

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

LATICRETE 125 Sound & Crack Adhesive is a superior crack prevention and sound isolation adhesive mortar. Independently tested to ANSI A118.12 specification for crack isolation for ceramic tile and stone installations and independently tested to ASTM E2179 and ASTM E492 for sound protection. LATICRETE 125 Sound & Crack Adhesive is a two component adhesive mortar which takes the place of costly time consuming membrane or mat systems by allowing for faster more effective tile or stone installations.

Advantages

- Prevents transmission of cracks from the approved substrates to the tile or stone finish when subjected to horizontal in plane movement of cracks up to 1/8" (3 mm) under normal usage. Exceeds ANSI A118.12
- ΔIIC rating of 15 as tested to ASTM 2179
- Rated "EXTRA HEAVY" per Robinson ASTM C627
- Thin-bed or medium-bed applications
- Superior workability—equipped with lightweight technology
- GREENGUARD certified, LEED compliant
- Reinforced with Kevlar®
- Equipped with Microban®
- Interior installations only
- Part of the 25 Year Warranty†
- 30% post-consumer recycled content

† When used as part of the LATICRETE® 25 year System Warranty DS 025.0

Suitable Substrates (Interior use only)

- Concrete
- Cement mortar beds
- Ceramic tile and stone
- Exterior glue plywood
- Brick masonry
- Cement terrazzo
- Cement backer board*
- Poured gypsum underlayments

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

Packaging

7 gallon pail kit (26.5 ℓ)

Content: 2.5 gal (9.5 ℓ) LATICRETE 125 Sound & Crack Adhesive Additive and 27.5 lbs (12.5 kgs) LATICRETE 125 Sound & Crack Adhesive powder

36 pails per pallet

Color

Grey only

Approximate Coverage*

110–120 ft ² /7 gallon pail (9.9–10.8 m ² /26.5 ℓ pail) with 1/4" x 1/4" (6 mm x 6 mm) notched trowel.
85–100 ft ² /7 gallon pail (7.5–9.3 m ² / 26.5 ℓ pail) with 1/4" x 3/8" (6 mm x 9 mm) notched trowel.
65–75 ft ² /7 gallon pail (5.8–6.7 m ² / 26.5 ℓ pail) with 1/2" x 1/2" (12 mm x 12 mm) notched trowel.
For all installations requiring sound protection, use a 1/2" x 1/2" (12 mm x 12 mm) notched trowel, 3/4" loop trowel, or a 1/4" x 3/8" (6 mm x 9 mm) notched trowel.
For installations only requiring anti-fracture protection, a 1/4" x 1/4" (6 mm x 6 mm) or 1/4" x 3/8" (6 mm x 9 mm) may be used for maximum coverage

* When back buttering tile for sound control applications, there will be a significant decrease in coverage

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

- Not for use directly over particle board, OSB, luan, Masonite® or hardwood floors.
- Use LATAPOXY® 300 Adhesive for installing green marble, moisture sensitive stone, resin backed stone or tile, and agglomerates. (refer to Data Sheet 633.0)
- 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).
- 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.

- Not for use in submerged applications. For these applications use LATICRETE® 254 Platinum.

Cautions

Consult MSDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains 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.
- Do not allow product to freeze during transportation, storage or installation until product is fully cured.
- Keep out of reach of children.

4. TECHNICAL DATA

Physical Properties

Test	Test Method	Result	Specification
System Crack Resistance Test	ANSI A118.12 5.4	High	Standard 1/16 in (1.6 mm) High 1/8 in (3 mm). Independent report available.
Delta Sound Reduction	ASTM E2179	Δ IIC rating of 15 1/4" x 3/8" (6 mm x 9 mm) trowel	Dependent upon floor construct. Independent report available
IIC	ASTM E492	60	N/A Independent test report available
28 day Cure Porcelain Tile Shear Strength	ANSI A118.12 5.1.5	163 psi (1.1 MPa)	50 psi (Mpa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.12 5.1.4	77 psi (0.53 Mpa)	50 psi (Mpa)
Shear Strength after Accelerated Aging	ANSI A118.12 5.1.6	163 psi (1.1 Mpa)	50 psi (Mpa)
Robinson Floor rating	ASTM C627	EXTRA HEAVY	N/A
Point Load Resistance 28 Day Cure	ANSI A118.12 5.1.6	1697 lbs (771 Kg)	1000 lbs (454 Kg)

Working Properties

Open Time	40 minutes
Pot Life	2–4 hours
Time to Foot Traffic	24 hours
Wet Density	56.2 lbs/ft ³ (1.02 g/cc)

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

Preparation

Identify the type of crack in the substrate. DO NOT use LATICRETE 125 Sound & Crack Adhesive over structural cracks or other areas with differential vertical movement.

Shrinkage Cracks: Occur during the curing process of the concrete. Typically the movement is horizontal (open and close).

Structural Cracks: Occur from improper design or installations of substructure for load conditions. Typical movement is vertical (up and down). LATICRETE 125 Sound & Crack Adhesive is not intended to bridge joints which experience dynamic movement such as expansion joints and structural cracks. Expansion joints must be carried through the entire tile installation.

Note: Treat closest joint to cold or saw cut joint with LATICRETE Latasil™. Do not remove all of LATICRETE 125 Sound & Crack Adhesive from the grout joints in areas that are treating non-structural cracks, cold joints, saw cut joints.

However, LATICRETE 125 Sound & Crack Adhesive must be removed from all other movement joints while fresh to allow for maximum movement these joints. Fill these joints completely with LATICRETE Latasil and the appropriate backer rod or bond breaker tape.

Surface Preparation

All surfaces should be between 50°F (10°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 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 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.

Maximum amount of moisture in the concrete substrate should not exceed 5 lbs/1000 ft² (2.26 kg/92.9 m²) /24 hours per ASTM F-1869 or 75% relative humidity as measured with moisture probes.

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" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove over bridged joists spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joists from joists in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors" for complete details.

Mixing

Remove container of Latex and Powder from the LATICRETE 125 Sound & Crack Adhesive pail. Add the entire content of the Latex container into the pail. Add the 27.5 lbs (12.5 kg) of powder. Mix with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5–10 minutes. Remix without adding any more latex or powder. During use, stir occasionally to keep mix fluffy. DO NOT temper with water.

Application

Perimeter Isolation Strip

It is essential that all walls and building elements are isolated from the floor.

Note: It is recommended to install a perimeter isolation strip before the installation of LATICRETE 125 Sound and Crack Adhesive. Attach the perimeter isolation strip to the perimeter wall of the entire

subfloor, as well as around the perimeter of any protrusions, in order to isolate or break the vibration transmission path between the floor and the wall. Temporarily fasten perimeter isolation strip in place with staples masking, duct, or carpet tape. The perimeter isolation strip can then be removed after the tiles have set firm. The joints can then be filled with an appropriate acoustical sealant.

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb an additional mortar with the notched side.

Note: To obtain stated sound control rating, tile must be back-buttered.

Note: Use the proper sized notched trowel to ensure full bedding of the tile. Nominal thickness after bedding using 1/4" x 3/8" (6 mm x 9 mm) trowel and back-buttering tile for sound abatement is 1/8" to 3/16". Spread as much mortar as can be covered with tile in 15–20 minutes. Place tiles into wet, sticky mortar and adjust. 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. For installations requiring sound control; all tiles must be back buttered.

Grouting

Grout installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with LATICRETE® SpectraLOCK^{®†} PRO Grout, LATICRETE PermaColor™ Grout mixed with water or LATICRETE 1500 Sanded Grout or LATICRETE 1600 Unsanded Grout gauged with LATICRETE 1776 Grout Enhancer or with water. The time to grouting may be prolonged when back buttering tile for sound control applications.

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

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:

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 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

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 025.0:	LATICRETE 25 Year System Warranty
DS 258.0:	LATICRETE 1600 Unsanded Grout
DS 256.0:	LATICRETE 1500 Sanded Grout
DS 685.0:	LATICRETE SpectraLOCK PRO Grout
DS 265.0:	LATICRETE 1776 Grout Enhancer
TDS 152:	“Bonding Ceramic Tile, Stone or Brick Over Wood Floors”
DS 633.0:	LATAPOXY 300 Adhesive
DS 250.0:	LATICRETE PermaColor Grout
DS 677.0:	LATICRETE 254 Platinum
DS 663.0:	LATICRETE Hydro Ban™
DS 236.0:	LATICRETE 9235 Waterproofing Membrane

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