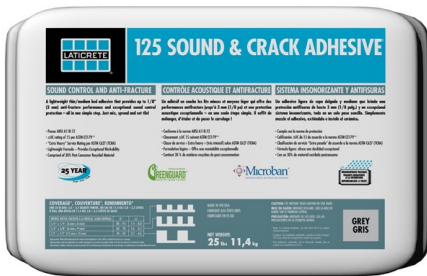




# 125 Sound & Crack Adhesive<sup>^</sup>

DS-024.0-0614

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

125 Sound & Crack Adhesive<sup>^</sup>

## 2. MANUFACTURER

LATICRETE International, Inc.  
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Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235

Toll Free: 1.800.243.4788, ext. 235

Fax: +1.203.393.1684

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

## 3. PRODUCT DESCRIPTION

125 Sound & Crack Adhesive<sup>^</sup> 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 impact sound isolation. 125 Sound & Crack Adhesive<sup>^</sup> is a single 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.
- Single component, just add water.
- Contains 33% post consumer recycled materials.
- Superior workability—equipped with lightweight technology.
- GREENGUARD certified, LEED compliant.
- Reinforced with Kevlar<sup>®</sup>.
- Equipped with anti-microbial technology.
- "Extra Heavy" as per ASTM C627 Robinson Floor Test - TCNA
- Part of the 25 Year Warranty<sup>†</sup>.
- Conforms to ISO 13007-1 (C1ES2) classification.

<sup>†</sup>See Data Sheet DS 025.0 APD for complete warranty information

### 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

25 lb. (11.4 kg) bag

### Color

Grey only

### Approximate Coverage\*\*

80–95 ft <sup>2</sup> /25 lb bag (7.4–8.8 m <sup>2</sup> /11.4 kg bag) with 1/4" x 1/4" (6 mm x 6 mm) notched trowel.
60–70 ft <sup>2</sup> /25 lb bag (5.6–6.5 m <sup>2</sup> / 11.4 kg bag) with 1/4" x 3/8" (6 mm x 9 mm) notched trowel.
40–50 ft <sup>2</sup> /25 lb bag (3.7–4.7 m <sup>2</sup> / 11.4 kg bag) with 1/2" x 1/2" (12 mm x 12 mm) notched trowel.
For all installations requiring sound protection, use a 1/4" x 3/8" (6 mm x 9 mm) notched trowel for back buttering tiles.
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<sup>®</sup> or hardwood floors
- Interior installations only
- Use LATAPOXY<sup>®</sup> 300 Adhesive for installing green marble, moisture sensitive stone, and resin backed stone or tile, and agglomerates. (refer to DS 633.0)
- Should not be used to level or repair floors or walls. To properly level or repair a substrate please use a suitable LATICRETE<sup>®</sup> underlayment.

- 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).
- Not for use in submerged or steam room applications. For these applications use 254 Platinum.
- Installation of large format tile or stone may require a longer cure time prior to exposure to traffic or for grouting.
- Some light colored stones may darken. Conduct a test area to verify performance.

*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

Consult MSDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Avoid breathing dust. Wear a respirator in dusty areas.
- When installing a floor requiring a specific service rating, per TCNA Floor Tiling Installation Guide, the tile or stone finish must also be similarly rated for the application.
- Protection of newly installed floors Follow TCNA "Protecting New Tile Work" criteria outlined in the TCNA Handbook for Ceramic, Glass and Stone Tile Installation.
- Keep out of reach of children.

## 4. TECHNICAL DATA

### Applicable Standards

ASTM E989, ANSI A118.12, ISO 13007-1

### 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).

## Physical Properties

Test	Test Method	Result	Specification
System Crack Resistance Test	ANSI A118.12 5.4	High	Standard 1/16" (1.6 mm) High 1/8" (3 mm). Independent report available.
28 day Cure Porcelain Tile Shear Strength	ANSI A118.12 5.1.5	100–135 psi (0.7–0.9 MPa)	50 psi (0.34 Mpa)
Shear Bond Porcelain Tile Water Immersion	ANSI A118.12 5.1.4	60–85 psi (0.5–0.6 MPa)	50 psi (0.34 Mpa)
Shear Strength after Accelerated Aging	ANSI A118.12 5.1.6	100–170 psi (0.7–1.2 MPa)	50 psi (0.34 Mpa)
Point Load Resistance 28 Day Cure	ANSI A118.12 5.1.6	1000–1500 lbs (454–680 kg)	1000 lbs ( 454 kg)
Increase in Impact Insulation Class using 1/2" x 1/2" (12 x 12 mm) trowel	ASTM E 2179	Delta IIC = 17 dB	None
Impact Sound Transmission Test using 1/2" x 1/2" (12 x 12 mm) trowel	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 44 dB	None
Increase in Impact Insulation Class using 1/4" x 3/8" (6 x 9 mm) trowel	ASTM E 2179	Delta IIC =14 dB	None
Impact Sound Transmission Test using 1/4" x 3/8" (6 x 9 mm) trowel	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 42 dB	None

## ISO 13007-1 Designation of C1ES2

Test Description	Results	ISO 13007-1
Tensile Adhesion Strength ISO 13007-2;4.4.4.2	1.02 MPa	0.5 MPa 1 MPa
Tensile Adhesion Strength after Heat Aging ISO 13007-2;4.4.4.4	1.43 MPa	0.5 MPa 1 MPa
Tensile Adhesion Strength after Water Immersion ISO 13007-2;4.4.4.3	0.75 MPa	0.5 MPa 1 MPa
Extended open time: tensile adhesion strength ISO 13007-2;4.1	0.71 MPa	0.5 MPa 0.5 MPa

## Working Properties

Open Time	40 minutes
Pot Life	> 2 hours
Time to Foot Traffic	24 hours
Wet Density	53.7 lbs/ft <sup>3</sup> (0.86 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 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). 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 LATASIL™. Do not remove all of 125 Sound & Crack Adhesive from the grout joints in areas that are treating non-structural cracks, cold joints, saw cut joints. However, 125 Sound & Crack Adhesive must be removed from all other movement joints while fresh to allow for maximum movement of these joints. Fill these joints completely with 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 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.

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

Add 3.0 to 3.5 qt (2.8 to 3.3 L) of water into the pail, add the 25 lbs (11.4 kg) of powder, and mix for 2 minutes. Mix with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5–10 minutes and remix for an additional minute. Remix without adding any more water or powder. During use, stir occasionally to keep mix fluffy. **DO NOT** temper with water.

### Application

#### Perimeter Isolation Strip for Sound Control Installations

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 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) towel and back-buttering tile for sound abatement is 1/8" to 3/16" (3 – 5 mm). 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) or above. The time to grouting may be prolonged when the air and/or substrate temperature is below 70°F (21°C). Grout with SPECTRALOCK® PRO Premium Grout†, SPECTRALOCK PRO Grout†, PERMACOLOR® Grout^ mixed with water, or 1500 Sanded Grout or 1600 Unsanded Grout gauged with 1776 Grout Enhancer or with water. The time to grouting may be prolonged when mortar is built up for medium bed applications or when back buttering tile for sound control applications.

### 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](http://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 025.0APD: LATICRETE 25 Year Tile & Stone System  
Warranty

## 8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation 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](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  
DS 025.0: LATICRETE 25 Year System  
Warranty (United States and Canada)  
DS 236.0: 9235 Waterproofing Membrane  
DS 250.0: PERMACOLOR® Grout^  
DS 256.0: 1500 Sanded Grout  
DS 258.0: 1600 Unsanded Grout  
DS 265.0: 1776 Grout Enhancer  
DS 620.01: LATASIL™  
DS 633.0: LATAPOXY 300 Adhesive  
DS 663.0: HYDRO BAN®  
DS 677.0: 254 Platinum  
DS 681.0: SPECTRALOCK® PRO Premium Grout†  
DS 685.0: SPECTRALOCK PRO Grout†  
TDS 152: "Bonding Ceramic Tile, Stone or Brick Over  
Wood Floors"

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

^ United States Invention Patent No.: 6784229 (and other Patents)

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