



Globally Proven
Construction Solutions

125 Sound & Crack Adhesive

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, ASTM E2179 and ASTM E492 for sound protection. 125 Sound & Crack Adhesive 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.



FEATURES/BENEFITS

- 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 3 mm under normal usage.
- Single component, just add water
- Contains 30% post consumer recycled materials
- Superior workability equipped with lightweight technology
- GREENGUARD certified, LEED compliant
- Reinforced with Kevlar[®]
- Equipped with Microbcn[®]
- "Extra Heavy" as per ASTM C627 Robinson Floor Test – TCNA

USES

125 Sound & Crack Adhesive provides incredible sound transmission protection while simultaneously protecting the tile or stone finish from any cracking from the substrate through to the tile or stone finish.

125 Sound & Crack Adhesive is a combination of advanced polymers with rubber fillers for flexibility and reinforcing fibers for strength. 125 Sound & Crack Adhesive the ability to do what the others can't do – provide unmatched flexibility and sound deadening performance.

STANDARDS/CERTIFICATIONS

- ANSI A118.12, American National Standard Specifications for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation
- ASTM E 2179-03
- E 492-09
- E 989-06

MANUFACTURER/ DISTRIBUTED BY

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Internet: se.laticrete.com



This product has been certified green under the UL GREENGUARD Certification Program.

Suitable Substrates

- 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 and LATICRETE Technical Department for specific installation requirements and to verify acceptability for water use.

Packaging

11.4kg per bag

Approximate Coverage

7.4 – 8.8 m² with 6mm x 6mm notched trowel

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored at temperatures >0°C and <40°C.

Limitations

- Not for use directly over particle board, luan, Mconite[®] or hardwood floors
- Interior installations only
- Use LATAPOXY[®] 300 Adhesive for installing green marble, moisture sensitive stone, resin backed stone or tile, and agglomerates
- Should not be used to level or repair floors or walls. To properly level or repair a substrate please use a suitable LATICRETE 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.
- Not for use in submerged applications. For these applications use 4237 Thin Set Mortar Additive mix with 211 Crete Filler Powder.
- Installation of large format tile or stone may require a longer cure time prior to exposure to traffic or for grouting.

*Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin sets 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/grout installations or L/400 for thin bed stone installations where L=span length

Cautions

Consult MSDS for more safety information.

- During wet weather, protect finished work from traffic & water 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.

- Protection of newly installed floors. Follow TCNA "Protecting New Tile Work" criteria outlined in the TCA Handbook for Ceramic Tile Installation.
- Do not take internally.
- Keep out of reach of children.

TECHNICAL DATA

PHYSICAL PROPERTIES

Test	Test Method	Specification	Results
System Crack Resistance Test	ANSI A 118.12.5.1	Standard 7.6mm H ₂ O Smr.	H ₂ O
28 day Cure Flexile In Tile Shear Strength	ANSI A 118.12.5.1.5	≥0.34k/inm ²	>0.8N/rmm ²
Shear Bond Flexile In Tile Water Immersion	ANSI A 118.12.5.1.4	≥0.34k/inm ²	>0.5N/rmm ²
Shear Strength after Accelerated Aging	ANSI A 118.12.5.1.6	≥0.34k/inm ²	>0.7N/rmm ²
Point Load Resistance 28 Day Cure	ANSI A 118.12.5.1.6	≥151 kg	>560kg
Increase in Impact Insulation Class using 1/2 x 1/2 trowel	ASTM E 2179-03	Delta IC – 15 dB	None
Impact Sound Transmission Test using 1/2 x 1/2 trowel	ASTM E 492-09 / ASTM E 989-06	Impact Insulation Class IIC – 43 dB	None
Increase in Impact Insulation Class using 1/4 x 3/8 trowel	ASTM E 2179-03	Delta IC – 17 dB	None
Impact Sound Transmission Test using 1/4 x 3/8 trowel	ASTM E 492-09 / ASTM E 989-06	Impact Insulation Class IIC – 42 dB	None

Working Properties

Open Time	40 minutes
Pot life	2 hours
Time to Foot Traffic	24 hours

*Specifications subject to change without notification. Results shown are typical for reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

INSTALLATION

Preparation

Identify the type of crack in the substrate. DO NOT use T25 Sound & Crack Adhesive over structural cracks or other creas 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 nonstructural 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. Fill these joints completely with Latasil and the appropriate backer rod or bond breaker tape.

Surface Preparation

All surfaces should be between 8°C and 35°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 6mm in 3m. 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: 15mm thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove over bridged joists spaced 400mm o.c. maximum; fasten plywood 150mm o.c. along sheet ends and 200mm o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm between sheet ends and 6mm between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: 15mm thick exterior glue plywood fastened 150mm o.c. along sheet ends and 200mm o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm to 6mm between sheets and 6mm 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 2.8 to 3.3l of water into the pail, add the 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

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

Note:

1. 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.
2. To obtain stated sound control rating, tile must be back-buttered.
3. Use the proper sized notched trowel to ensure full bedding of the tile. Nominal thickness using 6mm x 9mm 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 21°C. Grout with SpectraLOCK[®] PRO Grout or 1500 Tri-poly Fortified Sanded Grout or 1600 Tri-poly Fortified 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.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

For on-line distributor information, visit LATICRETE at se.laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE South East Asia Pte Ltd warrants that T25 Sound and Crack Adhesive is free from manufacturing defects and will not 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.

MAINTENANCE

LATICRETE[®] and LATAPOXY[®] grouts require routine cleaning with a neutral pH cleaner (e.g. STONETECH[®] Stone & Tile Cleaner) 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.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

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Technical and safety literature

To acquire technical and safety literature, please visit our website at

se.laticrete.com