



125 Sound & Crack Adhesive[^]

125 Sound & Crack Adhesive[^] is a superior crack prevention and sound isolation adhesive mortar which takes the place of costly time consuming membrane or mat systems, for faster more effective tile or stone installations. It has been independently tested; for impact sound insulation to AS and ANSI standards; for crack isolation to the ANSI specification; and as an adhesive mortar to AS ISO13007 for single component adhesive mortar. Meets the requirements of AS ISO 717.2 - 2004 as Ln,W +C i 62.

**Globally Proven
Construction Solutions**



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 33% post consumer recycled materials.
- Superior workability – equipped with lightweight technology.
- GREENGUARD[®] Certified, LEED Compliant.
- Reinforced with Kevlar[®].
- Equipped with Microban[®].
- Meets and exceeds AS ISO13007.1 & 2 C1ES2.
- “Extra Heavy” as per ASTM C627 Robinson Floor Test – TCNA.
- Turns a two-step sound control installations into one.
- Part of the LATICRETE System Warranty program.

PACKAGING/COLOUR

- 11.3 kg bag; 56 bags per pallet
- Grey

SUITABLE SUBSTRATES *(interior use only)*

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

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

MANUFACTURER

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[^] United States Patent No.: 6,784,229 (and other Patents).

Approximate Coverage

(Based on product wet densities with a trowel at 45°)

- 7.4 – 8.8 m² with 6 mm x 6 mm notched trowel
- 5.6 – 6.5 m² with 6 mm x 9 mm notched trowel
- 3.7 – 4.7 m² with 12 mm x 12 mm notched trowel

Coverage will depend on how the trowel is used and surface regularity.

For all installations requiring sound protection, use a minimum 6 mm x 9 mm sized notched trowel and back butter tiles. For installations only requiring anti-fracture protection, a 6 mm x 6 mm or 6 mm x 9 mm notched trowel 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 bags 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

- Use LATAPOXY® 300 Adhesive for installing green marble or water sensitive stone, agglomerates or tile.
- Use white adhesive for installing white or light coloured marble or stone.
- Not for use over carpet adhesive, vinyl tile cutback adhesive or plastic laminates.
- Not for direct use over hardwood or strip wood flooring, particle board, Luan plywood or Masonite®.
- Not for use over expansion joints or structural movement cracks.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE Waterproof Membrane.
- 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 TDS1011 for more details.

Cautions

- During cold weather, protect finished work from traffic until fully cured.
- Keep out of reach of children.
- 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. Use rubber gloves and eye protection when handling product.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear an approved respirator in dusty areas.
- Efflorescence is a normal condition of Portland cement. Contact LATICRETE for information on reducing the effects of efflorescence.

TECHNICAL DATA

Performance Properties

Exceeds the requirements of a C1ES2 when tested against AS ISO13007.1 & 2.

Test	Test Method	Result
System Crack Resistance Test	ANSI A118.12 5.4	High (3mm)
Increase in impact insulation using 12 x 12mm trowel	AS ISO 717.2:2004/ AS ISO 140.8:2006	ΔLW 13
Impact sound transmission testing using 12 x 12mm trowel as per CSIRO INR179/R1	AS ISO 717.2 - 2004	L _{n,W} + C i 62
Shear Strength After Accelerated Aging	ANSI A118.12 5.1.6	0.7–1.2 Mpa
Point Load Resistance 28-Day Cure	ANSI A118.12 5.1.6	454 – 680 kg
Increase in Impact Insulation Class using 12 mm x 12 mm trowel	ASTM E2179	ΔIIC = 15 dB
Impact Sound Transmission Test using 12 mm x 12 mm trowel	ASTM E 492/ ASTM E 989	IIC – 43dB
Increase in Impact Insulation Class using 6 mm x 9 mm trowel	ASTM E 2179	ΔIIC =14 dB
Impact Sound Transmission Test using 6 mm x 9 mm trowel	ASTM E 492/ ASTM E 989	IIC – 42dB

Working Properties at 21°C

PROPERTY	VALUE
Open Time	40 minutes
Pot Life	2 hours
Time to Heavy Traffic	24 hours
Wet Density	860 kg/m ³

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.

INSTALLATIONS

Unless otherwise stated in this document, LATICRETE technical data sheets and guidelines, all work should be in accordance with AS3958.1 -2007.

Surface Preparation

All surfaces should be between 4°C and 32°C and structurally sound, clean and free of all laitance, dirt, oil, grease, loose peeling paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with a 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 cured and 28 days old before application. Latex Portland cement mortars do not require a minimum cure time for cement slabs. All substrates must be plumb and true to 5 mm in 3 m when measured from the high point. Expansion joints shall be provided through the tile work, over all construction or expansion joints in the substrate. Follow Australian Standards requirements for Expansion Joints in AS3958.1 Section 5.4.5 and AS3958.2 Section 4.5 or TCNA detail EJ-171 "Movement Joints – Vertical & Horizontal". Do not cover expansion joints with adhesive.

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.

Mixing

Add 2.8 to 3.3 litres of water into the pail, add the 11.3 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 & Crack Adhesive. Attach the perimeter isolation strip to the perimeter wall of the entire sub floor, 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 6 mm x 9 mm towel and back-buttering tile for sound abatement is 3 mm to 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 after a minimum of 24 hours curing at 21°C using PERMACOLOR® Grout or PERMACOLOR Select. For maximum stain resistance use SPECTRALOCK® PRO Grout[†] or SPECTRALOCK PRO PREMIUM. For further information see TDS1400.

Cold Weather Note

The setting of Portland cement adhesives, mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. For faster setting adhesives use LATICRETE Rapid Setting Thin- Set Adhesives and Additives. Do not set tile when surface temperature is below freezing or when substrate is frozen. For further information, see TDS1002.

Hot Weather Note

The evaporation of moisture in Portland cement adhesives, mortars and grouts is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in temperatures over 35°C. For further information, see TDS1018.

Cleaning

Clean tools and tile work with water while adhesive is fresh.

[†] United States Patent No.: 6,881,768 (and other Patents).

[^] United States Patent No.: 6,784,229 (and other Patents).

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information:

Toll Free: 1800 331 012

Telephone: 07 3865 1599

For online distributor information, visit LATICRETE at www.laticrete.com.au

Cost

Contact a LATICRETE Distributor in your area.

MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH detergent and water. All stone and tiles should be maintained and sealed with STONETECH® products as appropriate for the specific tile / stone and installation situation.

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

Technical assistance

Information is available by calling:

Toll Free: 1800 331 012

Telephone: 07 3865 1599

Fax: 07 3865 2250

Technical and safety literature

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

www.laticrete.com.au

DISCLAIMER

- The information contained in this document is given in good faith and to the best of our knowledge is true and accurate.
- This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information.
- The use of this product is beyond our control and liability is assumed by the user when used incorrectly and not in accordance with LATICRETE guidelines.
- The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.
- The specifier or other party responsible for the project must ensure that the details in this data sheet are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification.

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