125 TRI MAX™

Globally Proven Construction Solutions

125 TRI MAX™ is a superior crack prevention and sound isolation adhesive that is a direct replacement for 125 Sound & Crack Adhesive. Independently tested to ANSI A118.12 system crack resistance test, ASTM E2179 and ASTM E492 impact sound isolation for ceramic tile and stone installations. 125 TRI MAX 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 3mm under normal usage.
- Single component.
- Contains 36% post consumer recycled materials.
- Superior workability—equipped with lightweight technology.
- Single component - just add water.
- Reinforced with Fibre
- Equipped with anti-microbial technology to protect the treated article only.
- GREENGUARD certified.
- "Heavy" as per ASTM C627 Robinson Floor Test - TCNA.
- Part of the LATICRETE System Warranty. (See Data Sheet DS-1097 for warranty information).
- LEED compliant.
- Conforms to AS ISO 13007-1 (C1ES2) classification.
- 30% faster than membrane and thin-set installations.
- Saves up to 20% on material and labour costs.

USES

- Apartments
- Units
- School dormatories
- Classrooms
- Office Buildings
- Any multi-floor inhabitant needing sound reduction

PACKAGING/COLOUR

- 11.4 kg bag; 56 bags per pallet
- Grey

SUITABLE SUBSTRATES *(interior use only)*

- Concrete
- Cement Mortar Bed
- Ceramic Tile and Stone
- Exterior Glue Plywood
- Brick Masonry
- Cement Terrazzo
- Cement Backer Board*

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

MANUFACTURER

LATICRETE New Zealand
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Auckland, 1023, New Zealand

Telephone: +64 9 394 1900
Internet: nz.laticrete.com

Approximate Coverage

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

- 6.8 – 7.6 m2 / 11.4 kg bag with 6mm x 6mm notched trowel
- 4.6 – 5.0 m2 / 11.4 kg bag with 6mm x 9mm notched trowel
- 3.4 – 3.8 m2 / 11.4 kg bag with 12mm x 12mm notched trowel

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

For all installations requiring sound protection, use a minimum 6mm x 9mm sized notched trowel and back butter tiles.

For installations only requiring anti-fracture protection, a 6mm x 6mm or a 6mm x 9mm 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 containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >0°C and <43°C and off the ground in a dry area.

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

Limitations

- Not for use directly over particle board, OSB, luan, Masonite® or hardwood floors
- Interior installations only
- Use LATAPOXY® 300 Adhesive for installing green marble, moisture sensitive stone, and resin backed stone or tile, and agglomerates. (refer to DS-1047)
- 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 or steam room applications. For these applications use 254 Adhesive.
- Installation of large format tile or stone may require a longer cure time prior to exposure to traffic or for grouting.
- Some light coloured stones may darken. Conduct a test area to verify performance.

Cautions

- Consult SDS for more safety information.
- Protect finished work from traffic until fully cured.
- Causes serious eye irritation. Wear eye protection. If in eyes, flush thoroughly with water. Do not breathe dust. Wear a respirator in dusty areas.
- When installing a floor requiring a specific service rating, per AS3958.1, the tile or stone finish must also be similarly rated for the application.
- Protect newly installed tile installations.
- Keep out of reach of children.

TECHNICAL DATA

Applicable Standards

When Independently tested in accordance with AS ISO 13007.1&.2.
ANSI A118.12, ANSI A118.13, ASTM E989, ASTM E942

Physical Properties

Test	Test Method	Result
System Crack Resistance Test	ANSI A118.12 5.2	High
28 day Cure Porcelain Tile Shear Strength	ANSI A118.12 5.1.5	0.7– 0.9 MPa
Shear Strength after Accelerated Aging	ANSI A118.12.5.1.6	1.4 – 1.5 Mpa
Increase in Impact Insulation Class using 12mm x 12mm trowel	ASTM E 2179	Delta IIC = 16 dB
Impact Sound Transmission Test using 12mm x 12mm trowel 150mm slab	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 44 dB
Impact Insulation Class using 12mm x 12mm trowel 150mm slab drop ceiling	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 66 dB
Impact Insulation Class using 12mm x 12mm trowel 200mm slab drop ceiling	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 68 dB
Increase in Impact Insulation Class using 6mm x 9mm trowel	ASTM E 2179	Delta IIC =14 dB
Impact Sound Transmission Test using 6mm x 9mm trowel 150mm slab	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 42 dB
ISO Designation	ISO 13007.1	C1ES2
Tensile Adhesion Strength	ISO 13007.2 – 4.4.4.2	1.4 – 1.5 MPa
Tensile Adhesion Strength after Heat Aging	ISO 13007.2 – 4.4.4.4	1.8 – 1.9 MPa
Tensile Adhesion Strength after Water Immersion	ISO 13007.2 – 4.4.4.3	0.6 – 0.7 MPa
Extended open time: tensile adhesion strength	ISO 13007.2 – 4.1	1.3 – 1.4 MPa

Working Properties at 21°C

PROPERTY	VALUE
Open Time	40 minutes
Pot Life	> 2 hours
Time to Foot Traffic	5 hours
Wet Density	0.95g/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.

INSTALLATIONS

Unless otherwise stated in this document, LATICRETE technical data sheets and guidelines, all work should be in accordance with AS3958-2023

Preparation:

Identify the type of crack in the substrate. **DO NOT** use 125 TRI MAX™ 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 TRI MAX 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 TRI MAX from the grout joints in areas that are treating non-structural cracks, cold joints, saw cut joints. However, 125 TRI MAX 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 10°C and 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 apprpriate to the format size of the tile being installed. Expansion joints shall be provided through the tile work from all construction or movement joints in the substrate. Follow AS3958-2023 for guidance and information on movement joints. Do not cover movement joints with adhesive.

1. Installer must verify that deflection under all live, dead and impact loads of floors does not exceed industry standards of L/360 for ceramic tile and brick or L/720 for stone installations where L=span length.

Mixing:

Add 3.8L – 4.3L 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 adhesive 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 TRI MAX. 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 adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb an additional adhesive with the notched side.

Note: To obtain stated sound control rating, tile must be back-buttered. Use the proper sized notched trowel to ensure full bedding of the tile. Nominal thickness after bedding using 12mm x 12mm trowel and back-buttering tile for sound abatement is 3mm to 5mm. Spread as much adhesive as can be covered with tile in 15–20 minutes. Place tiles into wet, sticky adhesive and adjust. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. If adhesive is skinned over (not sticky), remove and replace with fresh adhesive. For installations requiring sound control; all tiles must be back buttered.

Grouting

Grout installation after a minimum of 5 hours curing time at 21°C or above. The time to grouting may be prolonged when the air and/or substrate temperature is below 21°C. Grout with your choice of LATICRETE grout. The time to grouting may be prolonged when adhesive 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 adhesive is fresh.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information:
Telephone: +64 9 394 1900

For online distributor information, visit LATICRETE at **nz.laticrete.com**

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:

Telephone: +64 9 394 1900

Technical and safety literature

To acquire technical and safety literature, please visit our website at **nz.laticrete.com**

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.
- Efflorescence is a normal condition of Portland cement and is not covered by any warranty. The use of LATAPOXY 310 Stone Adhesive, LATAPOXY 300 Adhesive, LATAPOXY SP-100, SPECTRALOCK® PRO Premium Grout and SPECTRALOCK 2000IG will not contribute to any noticeable efflorescence.

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