



Globally Proven
Construction Solutions

125 TRI MAX™

DS-125.0-0919

125 TRI MAX is a superior crack prevention and sound isolation adhesive mortar. 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 1/8" (3 mm) under normal usage.
- Single component.
- Contains 36% post-consumer recycled materials.
- Superior workability—equipped with lightweight technology.
- Single component - just add water.
- Fiber Reinforced
- Equipped with anti-microbial technology to protect the treated article only.
- "Heavy" as per ASTM C627 Robinson Floor Test - TCNA.
- Conforms to ISO 13007-1 (C1ES2) classification.
- 30% faster than membrane and thin-set installations.
- Saves up to 20% on material and labor costs.

USES

- Apartments
- Condos
- College dormitories
- Classrooms
- Office Buildings
- Any multi-floor inhabitant needing sound reduction

MANUFACTURER



made in USA for;

LATICRETE Middle East LLC.
P.O. Box. 86028, RAK, UAE.
Telephone: + 971 7 244 6396
Fax: + 971 7 244 5915
Internet: www.laticrete.me

STANDARDS/CERTIFICATIONS

Applicable Standards

- ANSI A118.12 | ANSI A118.13 |
ASTM E989 | ASTM E942 | ISO 13007-1



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.

Suitable Substrates (Interior use only)

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

Packaging

25 lb (11.4 kg) bags; 56 bags per pallet

Approximate Coverage
(for per 11.4 kg bag)**

Notched trowel.	Sqm.
6 mm x 6 mm	6.8–7.6 m ²
6 mm x 9 mm	4.6–5.0 m ²
12 mm x 12 mm	3.4–3.8 m ²

- For all installations requiring sound protection, use a 6mm x 9 mm notched trowel for back buttering tiles.
- For installations only requiring anti-fracture protection, a 16 mm x 6 mm or 6 mm x 9 mm may be used for maximum coverage

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >32°F (0°C) and <110°F (43°C) and off the ground in a dry area.

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 300)
- 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 (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 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 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.

TECHNICAL DATA**Physical Properties**

Test	Test Method	Results
System Crack Resistance Test	ANSI A118.12 5.4	High
28 day Cure Porcelain Tile Shear Strength	ANSI A118.12 5.1.5	100–135 psi (0.7– 0.9 MPa)
Shear Strength after Accelerated Aging	ANSI A118.12.5.1.6	200-215 psi (1.4-1.5 Mpa)
Increase in Impact Insulation Class using ½"x ½" (12 x 12 mm) trowel	ASTM E 2179	Delta IIC = 16 dB
Impact Sound Transmission Test using ½"x ½" (12 x 12 mm) trowel 6" slab	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 44 dB

Test	Test Method	Results
Impact Insulation Class using ½"x ½" (12 x 12 mm) trowel 6" slab drop ceiling	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 66 dB
Impact Insulation Class using ½"x ½" (12 x 12 mm) trowel 8" slab drop ceiling	ASTM E 492/ ASTM E 989	Impact Insulation Class IIC = 68 dB
Increase in Impact Insulation Class using ¼" x ⅜" (6 x 9 mm) trowel	ASTM E 2179	Delta IIC = 14 dB
Impact Sound Transmission Test using ¼" x ⅜" (6 x 9 mm) trowel 6" 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

Property Name	Property Value
Open Time	40 minutes
Pot Life	> 2 hours
Time to Foot Traffic	5 hours
Wet Density	59.3 lbs./ft ³ (0.95 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.

INSTALLATION

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 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.

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.

Minimum construction for interior plywood floors. SUB-FLOOR: 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 joints from joists in sub-floor and stagger joints between sheet ends; glue underlayment to sub-floor with construction adhesive.

Refer to Technical Data Sheet 152 "Bonding Ceramic Tile, Stone or Brick Over Wood Floors" for complete details.

Mixing: Add 4.0 - 4.5 qtrs. (3.8 - 4.3L) 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 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. Use the proper sized notched trowel to ensure full bedding of the tile. Nominal thickness after bedding using 1/2" x 1/2" (12.5 mm x 12.5 mm) trowel 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 5 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 your choice of LATICRETE grout. 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® materials are available worldwide.

For distributor information, please contact us by email at: enquiry@laticrete.me or, visit www.laticrete.me

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants this product will not deteriorate under normal conditions and use, the warranty validity of one (1) year. The product subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our technical support for further information

MAINTENANCE

LATICRETE® products are of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending of the cleaning products used.

TECHNICAL SERVICES

Technical assistance

For information contact us by email at:

enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at: www.laticrete.me

Warning: The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.
