

1. PRODUCT NAME

LATICRETE[®] 325 Premium Cementitious Adhesive for ceramic tile – Conforms with EN 12004
 Classification C1T

2. MANUFACTURER

LATICRETE Italia Srl.
 Piazza Martiri, 7
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3. PRODUCT DESCRIPTION

LATICRETE 325 Premium Thin-Set Mortar is a high performance bagged cementitious powder to be mixed with water to install ceramic tile and natural stone using the thin-set method of installation. Conforms and exceeds with EN 12004.

Uses - Designed for interior or exterior installation of ceramic tile and natural stone for walls and floors.

Advantages

- High Tack
- Dual purpose, for walls and floors
- Water Cleanable
- Easy to Use - Plastic, workable and extended open time
- Safe - non-flammable during storage, application and after hardening

Suitable Substrates

- Concrete
- Cement Backer Board***
- Cement Plaster
- Cement Terrazzo
- Gypsum Wall Board (Interior Only)
- Cement Mortar Beds
- Concrete Masonry
- Brick Masonry

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

Packaging – 25 kg bag, 60 bags per pallet
 Color: White and Grey

Coverage

Approximately 8.18m² per 25 kg. bag with 6mm x 6mm sq. notch. The coverage is approximate and it will depend of the conditions of the substrate, size of the tiles, and method of application.

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.

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

Limitations

- Do not apply directly to plywood, chipboard, particleboard, decorative laminates or resilient flooring.
- Do not install tile/stone when surface temperatures are below freezing 32°F (0°C). Use LATAPOXY[®] 300 Epoxy Adhesive for installing green marble or water sensitive natural stone and agglomerates.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers brick and stone are not designed as replacements for waterproof membranes. When a waterproof membrane is required, use a LATICRETE Waterproof Membrane (see Section 10 Filing Systems).
- 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 data sheets and for specific recommendations.

Cautions

- 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.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Protect finished work from traffic or damage by other trades for an extended period of time during cold weather conditions. At room temperature conditions 20°C, protect overnight.
- Keep out of reach of children.
- For additional safety information, refer to the MSDS.

4. TECHNICAL DATA

Applicable Standard

- EN 12004 Classification C1T

Performance Properties

LATICRETE[®] 325 Premium Cementitious Adhesive

Test/Test Method	Results
Tensile adhesion Type C1 EN 12004, EN 1348	0.9 N/mm2 standard climate 0.68 N/mm2 water immersion 0.75 N/mm2 heat aging 0.54 N/mm2 freeze-thaw cycles
Open time over tensile adhesion EN 1346	0.62 N/mm2 after 20'

Working Properties

LATICRETE 325 Premium Cementitious Adhesive

Adjustability	60 minutes
Pot Life	90 minutes
Time to Heavy Traffic	24 hours

Mass bulk density	1.6 kg/m ³
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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

Surface Preparation - All surfaces should be between 4°C and 32°C and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, 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. *No minimum cure time for concrete slabs when thin-set mortar is mixed with latex additive. 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 Requirements for Expansion Joints or TCA Detail EJ171 "Expansion Joints". Do not cover expansion joints with mortar. Cement Backer Board: follow TCA installation detail W244.

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. **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces. **For white and light colored marbles use LATICRETE® 325 adhesive WHITE.** For green and moisture sensitive marbles, use LATAPOXY® 300 Epoxy Adhesive, refer to Data Sheet 633.0.

Mixing - Stir LATICRETE admix thoroughly before use. Place clean, potable water into a clean pail. Add LATICRETE 325 Premium cementitious adhesive. Use approximately 5.6 liters of water for 25 kg. bag Note: Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow mortar to slake for 5-10 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

Spread as much mortar as can be covered with tile in 15-20 minutes. Back butter large tiles >200 x 200mm to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to imbed tile and adjust level.

Application - Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the sticky mortar and beat in using a beating block and rubber mallet to imbed tile and adjust level. 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.

Grouting - Grout installation after a minimum of 24 hours curing time at 21°C. Grout with LATICRETE 1500 or 1600 Tri-Poly Fortified sanded Grout or LATICRETE 1600 Unsanded

Grout mixed with LATICRETE 1776 Grout Admix Plus. For maximum stain resistance use LATICRETE® Spectralock Pro Grout.

Cold Weather Note: The setting of Portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note: The evaporation of moisture in Portland cement mortars 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.

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, call:

Telephone: 39-0187-897-470

For on-line distributor information, visit LATICRETE at www.LATICRETE.it.

Cost - Contact a LATICRETE/LATAPOXY Distributor in your area.

7. WARRANTY

LATICRETE 325 Premium cementitious adhesive is guaranteed by the manufacturer not to break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of installation.

8. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap 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.

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE Technical Service

Telephone: 39-0187-897-470

Toll Free: 800-01769

Fax: 39-0187-896-881

Technical and safety literature

To acquire technical and safety literature, please visit our website at www.LATICRETE.it.

10. FILING SYSTEM

Additional product information is available on our website at www.LATICRETE.it. The following is a list of related documents:

DS 236.0: LATICRETE 9235 Waterproofing Membrane

DS 685.0: LATICRETE Spectralock Pro Epoxy Grout

DS 256.0: LATICRETE Tri-Poly Fortified Sanded Grout (1500 Series)

DS 258.0: LATICRETE Tri-Poly Fortified Unsanded Grout (1600 Series)

DS 265.0: LATICRETE 1776 Grout Admix Plus



*Globally proven.
Professionally endorsed.*

LATICRETE INTERNATIONAL, INC.

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