



323 Tile Adhesive

323 tile adhesive is a polymer modified, cementitious thin-set powder that is to be mixed only with water using the thin-set method of installation of all types of ceramic tiles and natural stones over concrete and variety of substrates.



FEATURES/BENEFITS

- Good bond to porcelain
- Smooth and creamy
- Easy to apply
- Ready to use, just mix with water. Long open time
- Water and heat resistant
- Good bond and durable
- Can be used for interior and exterior
- Bond to most substrates

MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd
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 58100 Kuala Lumpur, Malaysia
 Tel: +603 7989 9188 Fax: +603 7972 0331
 Internet: <https://ma.laticrete.com>

SUITABLE SUBSTRATES

- Concrete
- Cement Mortar Beds
- Cement Plaster
- Concrete Masonry
- Drywall Board*
- Brick Masonry
- Cement Backer Board**

*Consult LATICRETE Technical Services for more information
 **Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use

USES

Designed for interior and exterior; floor and wall installation of all types of ceramic tiles and natural stones over concrete and variety of substrates

PACKAGING/COLOUR

- 25kg bag; 56 and 80 bags per pallet
- Grey



This product has been certified green under UL GREENGUARD

Approximate Coverage

25 kg of 323 Tile Adhesive with clean water will yield a coverage of 6.5–7.5m² with 6mm x 6mm square notch trowel

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, at temperatures > 0°C and < 40°C

* High humidity will reduce the shelf life of bagged product

Limitations

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not designed as replacements for waterproof membranes. When a waterproof barrier 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

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
- Keep out of reach of children

TECHNICAL DATA

VOC/LEED Product Information

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



166437-420

Applicable Standards

When tested in accordance to BS EN 12004. 1&2.

323 Tile Adhesive is classified as C2TE

Performance Properties

Test	Test Method	Specification	Results
Tensile Adhesion Strength (28 days)	EN 1348	≥1.0N/mm ²	>1.6N/mm ²
Tensile Adhesion after Water Immersion (28 days)	EN 1348	≥1.0N/mm ²	>1.2N/mm ²
Tensile Adhesion after Heat Ageing (28 days)	EN 1348	≥1.0N/mm ²	>1.0N/mm ²
Open Time (30 mins)	EN 1346	≥0.5N/mm ²	> 0.7N/mm ²
Slip Resistance	EN 1308	≤ 0.5mm	< 0.5mm
Shear Bond Strength	ANSI 118.4	≥0.5N/mm ²	> 1.3N/mm ²

Working Properties

(323 Tile Adhesive + Water)

Open Time (25°C)	30 Minutes
Pot Life (25°C)	2 Hours
Time to Light Traffic	24 Hours

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

Surface Preparation

All surfaces should be between 8°C and 35°C and structurally sound, clean and free of all dirt, oil, grease, loose peeling paints, 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 of. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28 days old before application

* Note: Latex Portland Cement Mortars do not require a minimum cure time for concrete slabs. 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 ANSI-3.8 "Requirements for Expansion Joints" or TCNA Detail EJ171 "Expansion Joints". Do not cover expansion joints with mortar. Glass Mesh Mortar Unit: Follow TCNA Installation detail W244

Mixing

Place clean, potable water into a clean pail. Add 323 Tile Adhesive powder. Use approximately 5.75ℓ - 6.25ℓ of water for 25kg of powder. 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

Note:

* Please do not mix other aggregates such as cement or sand etc to 323 Tile Adhesive

* Actual mixing ratio & field performance will depend on application methods, site condition and temperature

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 notched side.

Note: Use the proper sized-notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15-20 minutes. Back butter large tiles > 300mm x 300mm 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.

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.

Cleaning

Clean tools and tile work with water while mortar is fresh

AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide

For distributor information, call:

Telephone: +603 7989 9188

Fax: +603 7972 0331

For online distributor information, visit LATICRETE at <https://ma.laticrete.com>

Cost

Contact a LATICRETE distributor in your area

WARRANTY

LATICRETE (Malaysia) Sdn Bhd warrants that 323 Tile 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 subjected to terms and conditions stated

MAINTENANCE

LATICRETE 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 materials require no maintenance, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers

TECHNICAL SERVICE/CONTACT

Technical Assistance

Information is available by calling:

LATICRETE (Malaysia) Sdn Bhd
#18-08, Faber Tower 2, Jalan Desa Bahagia,
Taman Desa, 58100 Kuala Lumpur,
Malaysia

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Technical and safety literature

To acquire technical and safety literature, please visit our website at <https://ma.laticrete.com>