



# 316 Cementitious Adhesive

316 Cementitious Adhesive is a bagged cementitious powder. It is mixed with either water or latex admixture for installing ceramic tile and stone using the thin-set method of installation. 316 Cementitious Adhesive must be fortified with Mortar Admix for exterior use, porcelain, mosaic, glass and stone tiles, and heavy traffic areas



## FEATURES/BENEFITS

- Excellent non-sag formula for wall application
- Smooth, easy to trowel formula
- Dual purpose, for wall and floors

## MANUFACTURER

LATICRETE (Malaysia) Sdn Bhd  
 #18-08, Faber Tower 2, Jalan Desa Bahagia, Taman Desa,  
 58100 Kuala Lumpur, Malaysia  
 Tel: +603 7989 9188 Fax: +603 7972 0331  
 Internet: <https://ma.laticrete.com>

## SUITABLE SUBSTRATES

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

\* To add with latex

\*\* 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

## PACKAGING/COLOUR

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

### Approximate Coverage

25 kg of 316 Cementitious Adhesive with clean water will yield a coverage of 6.5 – 7.5m<sup>2</sup> 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
- For exterior use, fortify with Mortar Admix
- 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
- DO NOT bond to particle board, luan Masonite® or hardwood surfaces
- For installations in submerged applications, mix with Mortar Admix. Wait 14 days after the final grouting period before filing water features with water at 21°C

### Cautions

Consult MSDS for more safety information

- At room temperature conditions, protect overnight
- 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

### Applicable Standards

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

316 Cementitious Adhesive is classified as C1

### Performance Properties

Test	Test Method	Specification	Results
Tensile Adhesion Strength (28 days)	EN 1348	≥0.5N/mm <sup>2</sup>	>1.2N/mm <sup>2</sup>
Tensile Adhesion after Water Immersion (28 days)	EN 1348	≥0.5N/mm <sup>2</sup>	>0.7N/mm <sup>2</sup>
Tensile Adhesion after Heat Ageing (28 days)	EN 1348	≥0.5N/mm <sup>2</sup>	>0.7N/mm <sup>2</sup>
Open Time (20 mins)	EN 1346	≥0.5N/mm <sup>2</sup>	> 0.7N/mm <sup>2</sup>
Shear Bond Strength	ANSI 118.1	≥0.5N/mm <sup>2</sup>	> 1.0N/mm <sup>2</sup>

### Working Properties

(316 Cementitious Adhesive + Water)

Open Time (25°C)	20 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 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

### Mixing

Place clean, potable water into a clean pail. Add 316 Cementitious Adhesive powder. Use approximately 5.75ℓ - 6.25ℓ of water for 25kg of powder. **Please do not mix other aggregates such as cement or sand etc to 316 Cementitious Adhesive**

Note: For improved bond strength, flexibility and for exterior installations, add with Mortar Admix. For rapid "Open to Traffic" installations, use 101 Rapid Latex Admix. 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

### 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 316 Cementitious 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

Telephone: +603 7989 9188

Fax: +603 7972 0331

Email: [enquiry@laticrete.com.my](mailto:enquiry@laticrete.com.my)

### Technical and safety literature

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