



**For the Builders
of a Better World™**

LATAPOXY® 300 Adhesive

Chemical resistant epoxy adhesive that will bond to most sound, clean surfaces. Adhesive spreads easily and cleans with water while fresh. Factory-proportioned kit consisting of epoxy resin, hardener and chemical resistant silica filler. Can be used in interior and exterior (see limitations) walls and floors, wet and dry areas



FEATURES/BENEFITS

- Water cleanable
- No flammable solvents are required to clean tools or finished work
- Ideal for installing moisture sensitive marble and agglomerate tiles
- Ideal for installation of resin backed tile, mosaics, stone and agglomerates
- Non-staining on white and light-coloured marble
- High bond strength
- Maximum chemical resistance

PACKAGING / COLOUR

11 kg, 36 units per pallet
Part A: 2 x 0.5kg
Part B: 2 x 1.0kg
Part C: 2 x 4.1kg

MANUFACTURER

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

SUITABLE SUBSTRATES

- | | |
|---------------------------------------|----------------------|
| ▪ Ceramic tile and stones | ▪ Concrete |
| ▪ Exterior glue plywood* | ▪ Concrete masonry |
| ▪ Cement backer board** | ▪ Gypsum wallboards* |
| ▪ Cement plaster | ▪ Cement terrazzo |
| ▪ Plastic laminate* | ▪ Cement mortar beds |
| ▪ Vinyl or other resilient tile | ▪ Steel |
| ▪ Non-water soluble cut-back adhesive | |

* Interior application only

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

USES

For heavy duty commercial chemical resistant installations in food processing areas, commercial kitchens, restaurants, etc. Also use LATAPOXY 300 adhesive to install all types of ceramic tile, marble and natural stone over post-tensioned and precast floor systems. Also recommended for rubber flooring and wood block floors and the installation of green marble, white marble and agglomerate marbles that have a tendency to stain, darken or warp when installed with water-based installation materials



This product has been certified green under the UL GREENGUARD Certification Program

Approximate Coverage

A set of LATAPOXY 300 yields approximately 1.4 – 1.7m² with a 6 x 6mm square notched trowel

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (1) years if stored off the ground at temperatures > 0°C and < 40°C

Limitations

- No for use as a grout. Use SPECTRALOCK®† PRO Premium Grout or SPECTRALOCK 2000 IG
- Do not install when surface temperature is below 16°C or above 32°C
- Adhesives for ceramic tile and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE waterproofing membrane
- Consult LATICRETE technical services on limitations for exterior installations
- When installing ceramic tile and stone, verify that substrate deflection does not exceed the maximum allowable industry standard of L/360 for ceramic tile and L/480 for stone under combined live and dead loads. Some marbles and other stone have low flexural strength and may not be suitable for installation over wood floors

Cautions

Consult MSDS for more safety information

- During cold weather, protect finished work from traffic until fully cured
- LATAPOXY 300 Adhesive Part A is corrosive until fully cured. Damage to eyes and skin is possible
- Wait 14 days after the final grouting period before filling water features with water at 21°C
- Contains silica sand. 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

Performance Properties

Test	Test Method	Specification	Results
Quarry Tile Shear Bond Strength	ANSI A118.3 – 5.5	> 6.9N/mm ²	> 8.5N/mm ²
Compressive Strength	ANSI A118.3 – 5.6	> 24.1N/mm ²	> 51N/mm ²
Tensile Strength	ANSI A118.3 – 5.7	> 6.9N/mm ²	> 12.4N/mm ²
Thermal Shock Resistance	ANSI A118.3 – 5.8	> 3.4N/mm ²	> 8.2N/mm ²
Shrinkage	ANSI A118.3 – 5.3	< 0.25%	< 0.1%
Sag Resistance	ANSI A118.3 – 5.4	No Shape Change	Pass
Water Cleanability	ANSI A118.3 – 5.1	> 80 minutes	> 80 minutes
Initial Shear Adhesion	EN 12003 7.3	≥ 2N/mm ²	> 24N/mm ²
Shear Adhesion after Water Immersion	EN 12003 7.4	≥ 2N/mm ²	> 15N/mm ²
Shear Adhesion after Thermal Shock	EN 12003 7.5	≥ 2N/mm ²	> 17N/mm ²
Open Time Tensile Adhesion Strength	EN 1346	≥ 0.5N/mm ²	> 3.5N/mm ²

Data from TCA054-05, TCA095-90, and without notification. Results shown are typical performance but reflect test procedures used. Actual field performance will depend on installation methods and site conditions

Working Properties

Pot Life (21°C)	45 Minutes
Time to Grout	12 Hours
Time to Light Traffic	12 Hours

† United States Invention Patent No.: 6,881,768 (and other Patents)

Time to Heavy Traffic	24 Hours
Minimum Application Layer	3 mm
Maximum Application Layer	9mm
Wet Density	1590 kg/m ³

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

Classification in compliance with EN 12004

LATAPOXY® 300 Epoxy Adhesive is CE Marked, M Materialprüfungs-und Versuchsanstalt Neuwied Baustoffe GmbH (Neuwied, Germany)

Chemical Resistance* Chart (21°C)

CHEMICAL RESISTANCE CHART LATAPOXY® 300 EPOXY ADHESIVE		
REAGENT TYPE	LATAPOXY® 300 Modified Epoxy Adhesive Exposure Level	
	Continuous Exposure	Intermittent Exposure
Citric Acid 10%	R	R
Sulfuric Acid 1%	R	R
Hydrochloric Acid 1%	R	R
Lactic Acid 5%	R	R
Vinegar	NR	R
Acetic Acid 10%	NR	R
Phosphoric Acid 5%	R	R
Sodium Hydroxide 10%	R	R
Sodium Chloride 10%	R	R
Concentrated Detergents	R	R
Ammonium Hydroxide	R	R
Sugars	R	R
Gasoline	R	R
Cooking Oil	R	R

Turpentine	R	R
Mineral Spirits	R	R
Toluene	NR	NR
Xylol	NR	NR

R = Recommended ; NR = Not Recommended

Chemical resistance determined in accordance with ASTM C267 – 1982

NOTE TO SPECIFIER: Use the continuous exposure recommendations for intermittent exposure to reagents at temperatures above 32°C

*Intermittent is less than 3 days exposure

**Continuous is 1 month exposure

INSTALLATION

Surface Preparation

All surfaces should be between 16°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 LATICRETE Latex Portland Cement Underlayment to provide a wood float (or better) finish. Installation may be made on a damp surface. New concrete slabs must be damp cured and 28 days old prior to application. 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. Note: Temperature will effect working properties of LATAPOXY 300 Epoxy Adhesive. Warm temperatures will speed curing and shorten working time. Cool temperatures will slow curding and require longer time to traffic. Store LATAPOXY 300 Epoxy Adhesive at 21°C for 24 hours prior to use

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. Minimum construction for interior plywood floors

SUBFLOOR: 15mm thick exterior glue plywood, either plain with all sheet edges

blocked or tongue and groove, over bridged joints spaced 400mm o.c. maximum; fasten plywood 150mm o.c. along sheet ends and 200mm o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm between sheet ends and 6mm between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive

UNDERLAYMENT: 15mm thick exterior glue plywood fastened 150mm o.c. along sheet ends and 200mm o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm – 6mm between sheets and 6mm between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 “Bonding Ceramic Tile Stone or Brick Over Wood Floors” for complete details

3. **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces

Mixing

Pour LATAPOXY® 300 Adhesive Part A and Part B into a clean mixing pail and mix thoroughly. Add LATAPOXY 300 Part C filler Powder and mix to a smooth, trowelable consistency. Mortar is ready for use immediately after mixing

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. 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 embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile

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 LATAPOXY 300 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,
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Technical and safety literature

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