



LATAPOXY® 300 ADHESIVE

DS-6330-0622

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

LATAPOXY® 300 ADHESIVE

2. MANUFACTURER

LATICRETE Europe S.r.l. a socio unico
Via Paletti, snc, 41051

Castelnuovo Rangone MO, Italy

Telephone: +39 059 535540

Email: info@laticreteurope.com

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3. PRODUCT DESCRIPTION

LATAPOXY® 300 ADHESIVE is a chemical resistant, epoxy adhesive that will bond to most sound, clean surfaces. Adhesive spreads easily and cleans with water while fresh. LATAPOXY® 300 ADHESIVE is a factory-proportioned kit consisting of epoxy resin, hardener and chemical resistant silica filler.

LATAPOXY 300 ADHESIVE can be used in interior and exterior walls and floors, and wet, dry, or submerged areas.

Uses

- For interior, exterior, wet and submerged applications
- For heavy duty commercial chemical resistant installations in food processing areas, commercial kitchens, restaurants, etc.
- Install all types of ceramic tile, marble and natural stone over post-tensioned and precast floor systems.
- For rubber flooring and wood block floors.

- Recommended for green marble, white marble, and resin backed tiles and stones agglomerate marbles that have a tendency to stain, darken or warp when installed with water-based installation materials.

Advantages

- Water cleanable — no flammable solvents are required to clean tools or finished work
- Low VOC emissions — safe, better indoor air quality
- Non-staining on white and light-colored marble
- High bond strength and maximum chemical resistance
- Bonds to metal

Suitable Substrates

- Concrete
- Ceramic Tile and Stone
- Exterior Glue Plywood (Interior Only)
- CMU
- Non-Water Soluble Cut-Back Adhesive
- Vinyl Or Other Resilient Tile (Interior Only)
- Cement Mortar
- Gypsum Wallboard (Interior use only, non-wet areas)
- Cement Plaster
- Cement Terrazzo
- Plastic Laminate (Interior Only)
- Cement Backer Board (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Steel
- Polystyrene Backer Board

Packaging

11 kg kit, includes:

- (2) Part A (1.0 kg)
- (2) Part B (1.9 kg)
- (2) Part C powder (8.2 kg)

Approximate Coverage / Consumption

3,4 - 3,6 kg/m² with a 6x6 mm notched trowel

Approximate Coverage	
1.5 mm v-notch trowel	12,3 - 11,8 m ²
4 mm v-notch trowel	4,3 - 4,0 m ²
3 x 3 mm square notch trowel	4,6 - 4,0 m ²
6 x 6 mm square notch trowel	3,3 - 3,1 m ²

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored off the ground in a dry area. *** High humidity will reduce the shelf life of bagged product.

Limitations

- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- NOT for use as a grout. Use SPECTRALOCK® PRO Premium Grout, PERMACOLOR® SELECT or SPECTRALOCK 2000 IG.
- DO NOT install when surface temperature is below 16°C or above 32°C.
- NOT for use as a wear surface.
- 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 recommendations or limitations for exterior installations.

Cautions

Consult SDS 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 or skin is possible.
- Wait 14 days after the final grouting period before filling water features with water at 70°F (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.

4. 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.

Applicable Standard

- EN 12004 and ISO 13007 with R2 Classification

- ANSI A118.3
- ISO 9001:2015 Quality Management System

Physical Properties

Basis:	Epoxy resins, aggregates, additives		
Colour:	White		
Flammability:	No		
Classification EN 12004-1:	R2		
	Value	Requirement	Test Method
Initial Shear Adhesion Strength:	5 N/mm ²	≥ 2,0 N/mm ²	12004-2 8,5
Shear Adhesion Strength after Thermal Shock:	4 N/mm ²	≥ 2,0 N/mm ²	12004-2 8,5
Shear Adhesion Strength after Water Immersion:	4,4 N/mm ²	≥ 2,0 N/mm ²	12004-2 8,5
Open Time: Tensile Adhesion Strength after 20 min.	3,6 N/mm ²	≥ 0,5 N/mm ²	12004-2 8,1
Slip:	0 mm	≤ 0,5 mm	12004-2 8,2
Service Temperature Range:	Constant Exposure: from -20°C to +70°C Intermittent Exposure: from -30°C to +180°C		

Working Properties

Consistency:	creamy
Wet Density:	1,58 g/cm ³
Mix Ratio:	(1) Part A : (1) Part B : (1) Part C
Application Temperature:	From + 16°C to + 32°C
Pot Life:	45 minutes
Minimum Thickness:	3 mm
Maximum Thickness:	9 mm
Time to Foot Traffic:	12 hours
Time to Grouting:	12 hours
Time to Heavy Traffic:	24 hours

Chemical Resistance

Chemical Name	Continuous Exposure	Intermittent Exposure
Food Reagents		
Lactic Acid 5%	R	R
Acetic Acid 10%	NR	R
Citric Acid 10%	R	R
Vinegar	NR	R
Sugars	R	R
Cooking Oils	R	R
Mineral Acids		
Sulfuric Acid 10%	R	R
Nitric Acid 10%	R	R
Hydrochloric Acid 10%	R	R
Corrosive Cleaners		
Sodium Hydroxide 10%	R	R
Sodium Chloride 10%	R	R
Concentrated Detergents	R	R
Ammonium Hydroxide	R	R
Solvents		
Xylene	NR	NR
Mineral Spirits	R	R
Toluene	NR	NR
Gasoline	R	R
Turpentine	R	R

Chemical Resistance determined in accordance with ASTM C267. Chemical Resistance defined as:

- Intermittent: exposure to chemicals where clean up takes place several times a day such as in a commercial kitchen.
- Continuous: heavy exposure to chemicals where clean up is less frequent such as in an industrial food plant.
- **R**=Recommended, **NR**=Not Recommended

NOTES TO SPECIFIER Use the constant exposure recommendations for intermittent exposure to reagents at temperatures above 90°F (32°C).

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 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 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 6 mm in 3 m.

Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow local requirements or specifications, such as UNI 11493-1:2016, 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 ADHESIVE. Warm temperatures will speed curing and shorten working time. Cool temperatures will slow curing and require longer time to traffic. Store LATAPOXY 300 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: 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints 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 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, OSB, 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 >200 mm x 200 mm 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.

6. AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Europe S.r.l. a socio unico:

+39 059 535540

info@laticreteeuropa.com

For on-line distributor information, visit www.laticrete.eu.

Cost

Contact LATICRETE Europe S.r.l. a socio unico to obtain complete information and cost.

7. WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Services for further information. See 10. FILING SYSTEM:

- DS 230.13EU: 1 Year Product Warranty
- DS 230.10EU: 10 Year System Warranty

8. MAINTENANCE

LATICRETE® and LATAPOXY® are products 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.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling or emailing the Technical Service Hotline:

+39 059 535540

technicalservices@laticreteeuropa.com

Technical and Safety Literature

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

Warning

The information and the instructions in the data sheet, although based on knowledge gained through years of

applications, are indicative. LATICRETE® is unable to directly control the installation methods and conditions of products and does not assume any liability arising from their implementation. Those who want to use LATICRETE® products should 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.

LATICRETE® products are covered by a warranty within the limits of what is established by our general conditions of sale and within the limits of correspondence related to technical specifications and applicable certifications, as expressly indicated in the product data sheets, documentation, or applicable technical documentation.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.eu. The following is a list of related documents:

- DS230.13EU: 1 Year Product Warranty
- DS 230.10EU: 10 Year System Warranty