LATAPOXY® 300 ADHESIVE

DS-6330-0126

For the Builders of a Better World™



1. PRODUCT NAME

r LATAPOXY® 300 ADHESIVE

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

LATAPOXY® 300 ADHESIVE is a high-performance epoxy adhesive designed to ensure maximum strength and durability. It adheres securely to numerous surfaces, provided they are stable and clean. The adhesive is easy to apply and, when fresh, can be cleaned with water.
LATAPOXY® 300 ADHESIVE is supplied in a three-component kit, consisting of: epoxy resin hardener and silica-based inert filler, resistant to chemical agents. This product is ideal for installation on walls and floors, both indoors and outdoors, in wet or dry areas, and even in areas subject to continuous immersion.

Uses

- Laying of porcelain stoneware, thin ceramic slabs, non-absorbent single-fired tiles, double-fired tiles, natural and reconstituted stones that are stable in humidity, even large formats and glass mosaics.
- For the installation of large-format tiles
- For indoor and outdoor installation of ceramic, porcelain, glass and stone tiles
- Installation of green and white marble and moisture-sensitive agglomerates that tend to stain or deform when installed with traditional cementitious adhesives
- For walls or floors
- For laying on existing tiles
- Laying of coverings subject to constant immersion, such as swimming pools or tanks
- For rubber and wooden floors.
- For areas with heavy and intense traffic

Advantages

- Adhesive for all types of applications — excellent for outdoor applications, swimming pools and stone.
- Available in white
- Three-component — resin, hardener and aggregate
- Highly deformable
- Thixotropic and deformable — excellent workability
- No vertical slippage — suitable for walls
- High mechanical strength
- Highly resistant to sagging

Permitted substrates

- Concrete
- Tiles and stone
- Wooden panels for outdoor use (Indoor use only)
- Cement blocks
- Vinyl adhesive residues
- Vinyl tiles or other resilient tiles (interior only)
- Screed and cement mortar
- Plasterboard (For indoor use only, in dry environments)
- Cement plaster
- Cement terrazzo flooring
- Formica laminate (interior use only)
- Cement board (Consult the board manufacturer for installation advice and to verify suitability for outdoor use.)
- Steel
- Polystyrene panels

Packaging

White – the kit includes

- Part A (0.4 kg)
- Part B (0.8 kg)
- Part C powder (3.8 kg)

Yield/Consumption

- 3.5 – 3.7 kg/m² with 3x3 mm notched trowel
- 4.3 – 4.0 kg/m² with 4x4 mm notched trowel
- 4.5 – 4.4 kg/m² with 6x6 mm notched trowel

Storage
Twenty-four (24) months in original unopened packaging, stored off the ground in a cool, dry place.

Limitations
- DO NOT use on surfaces where rapid walkability is required.
- When laying natural or synthetic stone, refer to the properties of the product to be applied and the manufacturer's recommendations. If in doubt, it is advisable to carry out a test before laying.
- Adhesives, mortars, sealants, grouts for ceramic tiles, flooring, bricks and stones are not designed to replace waterproof membranes. When a waterproof barrier is required, use a LATICRETE® waterproofing membrane.
- For veneer installations using this product, consult local building code requirements for limitations and installation system specifications.
- DO NOT use as a joint sealant; use SPECTRALOCK® PRO PREMIUM GROUT, PERMACOLOR® SELECT or SPECTRALOCK 2000 IG for this purpose.
- DO NOT install at temperatures below +16°C or above +32°C.
- NOT for use as a wear surface.
- Consult LATICRETE Technical Service for limitations on outdoor use.

Warnings
- For further information, consult the product safety data sheet.
- Protect the work from frost and foot traffic until completely cured.
- Wait 14 days after final grouting before filling swimming pools and cisterns (21°C).
- DO NOT install at temperatures below +16°C or above +32°C.
- NOT for use as a wear surface.
- Keep out of reach of children.
- **FOR PROFESSIONAL USE**

For further information, consult the product safety data sheet.

4. TECHNICAL DATA

Standard
- EN 12004:2017: R2T
- ISO 9001:2015: CERT-09019-2001-AQ-BOL-SINCERT

Physical properties

Content:	epoxy resins, aggregates, additives
Colour:	white
Flammability:	no

Performance

Classification according to EN 12004:2017:		R2 T
	Value	**Test method**
Shear strength:	≥ 2.0 N/mm²	12004-2 8.5
Shear strength after thermal shock	≥ 2.0 N/mm2	12004-2 8.5
Adhesion after thermal ageing	≥ 2.0 N/mm2	12004-2 8.5
Shear strength after immersion in water	≥ 2.0 N/mm²	12004-2 8.5
Open time – Adhesion after 30 minutes	≥ 0.5 N/mm²	12004-2 8.1
Vertical slip	≤ 0.5 mm	12004-2 8.2
Temperature resistance	From -20°C to +70°C	

Processing characteristics

Consistency of the mixture:	Creamy
Specific weight of the mixture:	1.56 g/cm³
Mixing ratio:	(1) Part A : (1) Part B : (1) Part C
Application temperature:	From +15°C to +35°C
Maximum thickness:	9 mm
Workability time:	~ 3 hours
Open time:	~ 1 hour
Walkability:	~ h
Joint filling:	~ h
Commissioning:	~ days
Final hardening:	~ dd

(data measured at +23°C, 50% relative humidity)
The technical data provided is measured under standard laboratory conditions and is subject to change without notice. The actual performance of the product depends on the application conditions on site, the installation method used and the type of coating.

Chemical resistance

Chemical name	**Constant exposure**	**Intermittent exposure**
Food reagents		
Lactic acid 5%	R	R
Acetic acid 5%	NR	R
Citric acid 10%	R	R
Vinegar	NR	R
Sugars	R	R
Cooking oils	R	R
Mineral acids		
Sulphuric acid 10%	R	R
Nitric acid 10%	R	R
Hydrochloric acid 10%	R	R
Corrosive detergents		
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
Methanol	R	R
Turpentine	R	R

Chemical resistance is determined in accordance with ASTM C267-1982:

•Intermittent exposure: limited contact over time due to frequent cleaning throughout the day, as occurs, for example, in restaurant kitchens.

•Constant exposure: prolonged contact due to limited cleaning frequency, as occurs, for example, in industrial food production facilities
• R=Recommended, NR=Not Recommended

5. APPLICATION

Preparation of substrates
All surfaces must be flat, structurally sound and compact, with no loose parts and free of dust, grease, oil, paint and wax. Surface temperatures must be between 15°C and 35°C.

Product preparation
Pour the contents of Part B into a clean bucket. Add the contents of Part A and mix with a low-speed drill (250–300 rpm) until a homogeneous mixture with a uniform colour is obtained. Add LATAPOXY® 300 Part C Inert Powder and continue mixing until a creamy, spreadable consistency is obtained.
The mortar is ready for use immediately after mixing. Do not mix quantities of product greater than those that can be used within the pot life of the product (approximately 1 hour).

Application
Spread the mixture onto the substrate, first with the flat side of the trowel and then with the notched side. Apply the adhesive in a smooth, continuous layer using a notched trowel suitable for the size of the tiles to be laid. Lay the tiles within the open time of the adhesive.

Ensure a compact and continuous layer of adhesive that fills at least 90% internally and 95% externally of the volume and allows contact with at least 90% internally and 95% externally of the surface of the tile and substrate.

The so-called "close joint" installation is not permitted. Under no circumstances may a joint width of less than 2 mm be specified or adopted.

It is essential to respect the structural joints in the cladding as well. Provide suitable expansion and perimeter joints that divide the surface into square or rectangular meshes with a side ratio of no more than 1.5. As a guideline, the meshes can have the following dimensions:
- indoor areas: from 5 m x 5 m to 6 m x 4 m;
- outdoor areas: from 3 m x 3 m to 4 m x 2.5 m.

6. AVAILABILITY AND COSTS

Availability
LATICRETE® products are available worldwide. To find your nearest dealer, please contact LATICRETE EUROPE S.r.l.
Telephone: +39 059 535540
Email: info@laticreteeurope.com
Website: https://eu.laticrete.com/

Prices
Contact your nearest LATICRETE EUROPE S.r.l. product dealer for complete pricing information.

7. WARRANTY

The supplier guarantees that the product will not deteriorate under normal conditions of use. The warranty is valid for one (1) year. Contact Technical Services for further information.

Documentation
- DS 230.5-10-15EU: 15-year product warranty
- DS 230.5-10-15EU: 15-year product warranty

8. MAINTENANCE

LATICRETE® products are high quality products designed to provide long-lasting, maintenance-free installations; however, durability and performance are strictly dependent on the type of products used for cleaning.

9. TECHNICAL SERVICES

Technical assistance
For information, contact Technical Service
Telephone: +39 059 535540
Email info@laticreteeurope.com

Technical and safety literature
For technical and safety literature, visit our website: https://eu.laticrete.com/

Warnings
The information and instructions contained in this Technical Data Sheet, although based on knowledge acquired over years of application, are to be considered indicative. LATICRETE® cannot directly control the installation conditions and application methods of the products and therefore assumes no responsibility for their use. Those intending to use LATICRETE® products must conduct adequate site tests to determine their suitability for the intended use. Our products are covered by warranty within the limits established by our general terms and conditions of sale and within the limits of our products' compliance with the applicable technical specifications and certifications, as expressly indicated in the product data sheets or applicable technical documentation expressly provided by us with the products themselves.

10. DOCUMENTATION

Further product information is available on our website at https://eu.laticrete.com/.