



Globally Proven
Construction Solutions

LATAPOXY® SP 100

LATAPOXY® SP-100 is a stainless, color-fast epoxy grout specifically designed for use in floor and wall applications of ceramic tile, stone and structural glazed block. Ideal for residential kitchens, bathrooms, foyers, as well as cafeterias, swimming pools, spas, restrooms and schools. Interior and exterior use.



ADVANTAGES

- Sag Resistant-will not sag when used in wide joints up to 12 mm.
- Easy to Apply-smooth and creamy.
- Uniform Color-resists blotching.
- Chemical Resistant-100% solids epoxy resists many acids, alkalis and corrosives.
- Durable-will not peel, crack or powder.
- Easy Maintenance-smooth texture, easier to clean than cementitious grout joints.
- Easy to Use-no noxious odor, non-flammable, water cleanable, even with textured tile.
- High Temperatures Resistance-withstands steam and industrial machine cleaning (up to 230°F/110°C).
- Conforms to EN 13888 and ISO 13007-3 with RG Classification
- Can be used as an adhesive for paper face mounted glass mosaic tiles.

MANUFACTURER

LATICRETE Middle East LLC.
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USES

COMMERCIAL

- Cafeterias
- Swimming pools
- Restrooms
- Schools

PACKAGING / COLOR

Packaging,

- # 1 unit pail: 48 pails per pallet
- # 4 unit carton – (Commercial unit: 4 x Part ABC)
Part A & B – 44 cartons per pallet.
Part C – 44 cartons per pallet

Color: Available in 27 colors. Refer to *LATICRETE M.E. Grout and Sealant Color Chart* for complete color selection information.

Suitable Substrates

- Exterior Glue Plywood[^]
- Properly Prepared Vinyl Tile[^]
- Concrete/Masonry
- Concrete Block
- Cement Plaster
- Cement Mortar Beds
- Non-Water Soluble Cut-Back Adhesive^{*^}
- Cement Terrazzo
- Cement Backer Boards^{^^}
- Gypsum Wallboard[^]
- Gypsum Plaster^{*}
- Plastic Laminate[^]
- Existing Ceramic Tile and Stone
- STRATA_MAT™
- HYDRO BAN® Board^{***}

[^] Interior use only.

^{^^} Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

^{***} Consult product datasheet (DS-040.0) for specific installation recommendations

Packaging Components:

#1 Unit Pail-80 pails per pallet

#4 Unit Carton-available in components only, 70 cartons per pallet

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored at temperatures >32°F (0°C) and <110°F (43°C).

Limitations

- Suitable for exterior application in swimming pools. Light colors may darken slightly from direct UV exposure. Consult with LATICRETE Technical Services for specific exterior recommendations.
- Not for use in areas subjected to harsh chemicals, or areas exposed to aggressive cleaning regimens. Not for use for floors and base in veterinary clinics, kennels or in applications exposed to high concentrations of food and mineral acids or areas exposed to high temperatures.
- Please consult with technical services for specific recommendations, if grout will be exposed to chemicals other than those indicated on the chemical resistant chart.
- Maximum stain resistance is achieved 10 days after installation at 70°F (21°C). Protect from exposure to acids and strong cleaners during this period.
- Not recommended for soft, polished marble or delicate glazed tiles.
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing

membrane is required, use HYDRO BAN® (see Section 10 FILING SYSTEMS).

- Epoxy Resins may affect the color of white or porous stones (such as White Carrara, Thassos White, Royal Danby etc.).

Cautions

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- In steam rooms or submerged applications, allow LATAPOXY® SP-100 to cure for 10 days at 70°F (21°C) prior to use of area and filling with water. See TDS 192 for more information on these applications.
- Until cured, LATAPOXY SP-100 may irritate eyes and skin. Avoid contact with eyes and or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Contains 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.
- Because propane gas heaters will cause epoxy grouts to yellow, refrain from using such heaters or properly vent all exhaust.
- Keep out of reach of children.

TECHNICAL DATA

Applicable Standard

Meets ANSI A118.3, EN 13888 and ISO13007-3 with RG Classification

Physical Properties

Test	Results
Water Cleanability	Pass (>80 min)
Water Absorption	<1/2%
Initial Setting Time	Pass (>2 hours)
Service Setting Time	Pass (<7 days)
Shrinkage	Pass (0.10%)
Sag	Pass (no change)
Quarry Shear Bonds	>1000 lbs/in ² psi (6.9 MPa)
Compressive Strength	>6000 lbs/in ² psi (41.4 MPa)
Tensile Strength	>1700 psi (11.7 MPa)
Thermal Shock	>1100 psi (7.6 MPa)

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Test	Test Method	ISO 13007-3 RG Specification	Results
28 Day Cure Abrasion Resistance	ISO 13007-4 4.4	Less than or equal to 250 mm ³ (0.015 in ³)	133-141 mm ³ (0.008-0.0086 in ³)
28 Day Cure Flexural Strength	ISO 13007-4 4.1.3	Greater than 30 MPa (4350 psi)	34.9-40.3 MPa (5060-5844 psi)
28 Day Cure Compressive Strength	ISO 13007-4 4.1.4	Greater than 45 MPa (6525 psi)	62.4-64.0 MPa (9048-9285 psi)
28 Day Cure Shrinkage	ISO 13007-4 4.3	Less than 1.5 mm/m (0.06 in./3.28 ft)	0.99-1.05 mm/m (0.039-0.04 in/3.28 ft)
28 Day Water Absorption Soaked 240 minutes	ISO 13007-4 4.2	Less than 0.1 g (0.0002 lb)	0 g

Working Properties

Workability (Pot Life) @ 72°F (22°C)	1 hour
Foot Traffic	24 hours
Heavy Traffic	72 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.

CHEMICAL RESISTANCE* CHART

Chemical Name	Splash Exposure	Intermittent Exposure	Continuous Exposure
Milk	R	R	R
Wine	R	R	R
Ethanol	R	R	NR (Soft)
Potassium Permanganate 1%	R	R	R
Tannic Acid to 50%	R	R	R
Tartaric Acid to 50%	R	R	R
Phosphoric Acid to 80%	R	R	R
Sulfuric Acid to 20%	R	R	R
Oxalic Acid to 10%	R	R	R
Lactic Acid to 5%	R	R	R
Acetic Acid to 5%	R	R	R
Sodium Hydroxide to 50%	R	R	R
Sodium Hydroxide Saturated	R	R	R
Benzoic Acid 5%	R	R	R
Distilled Water	R	R	R
Mineral Water	R	R	R
Sea Water	R	R	R
Fruit Juice	R	R	R
Methanol	R	NR	NR
Mek	R	NR	NR
Chloroform	R	NR	NR
Methylene Chloride	NR	NR	NR
Toluene	R	NR	NR
Xylene	R	NR	NR

*Chemical Resistance depends on exposure levels: Splash-minor spill wiped up quickly such as in a laboratory. 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. Chemical Resistance determined in accordance with ASTM C267.

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

INSTALLATION

Preparation

Before starting to grout, remove debris in grout joints and lightly sponge the tile surface to remove dust and dirt. Do not clean tiles with acid cleaners. Substrate temperature must be between 60°F (16°C) and 90°F (32°C). See DS 631.5 for more information prior to use.

Mixing

Empty entire contents of LATAPOXY® SP-100 Part "A" and Part "B" pouches into a clean mixing pail. Mix with a margin trowel or a slow speed drill mixer until liquids are completely blended. Use all of LATAPOXY SP-100 Part "C" Filler Powder and mix to a uniform

consistency (High temperatures may require more powder). Mix as stiff as possible to work into the joints. For easier workability or narrow joints, use 10% less powder.

Application

Immediately pour entire contents of bucket onto working area. Use a plastic sheet as a drop-cloth. Use standard epoxy grouting techniques to work LATAPOXY SP-100 into grout joints. Be sure all grout joints are packed full. Remove as much excess material as possible before initial cleaning with grout float. Do not leave excess grout on the face of tiles.

Cleaning

Initial Cleaning: Apply water to surface during cleanup with spray bottle or pressurized sprayer. Clean with nylon scrub pad and clean, cool water. Dress joints and final rinse with sponge.

Final Cleaning: Clean surface after 6-8 hours but within 24 hours of initial cleaning with neutral detergent, rinse with clean water.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information, call : + 971 7 244 6396

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year.

Contact Technical Support for further information.

MAINTENANCE

LATICRETE® products are 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.

TECHNICAL SERVICES

Information is available by calling the LATICRETE Technical Service

Telephone: + 971 7 244 6396

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at

www.laticrete.me / www.laticrete.com