



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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United Arab Emirates
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www.laticrete.me

USES

COMMERCIAL

- Cafeterias
- Swimming pools
- Restrooms
- Schools

STANDARDS / APPROVALS

Applicable Standard

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



This product has been certified for Low Emitting Materials by Dubai Central Laboratory Department (DCLD) of Dubai Municipality.
No.CL20020733: 2017 Al Sa'fat
Dubai Green Building Evaluation System.

Packaging,

- Part A- 0.385 kgs/ pouch
- Part B- 1.0 kgs/pouch
- Part-C powder- 4 kgs/Pouch

Single unit Pail [#1]:

- 1 x Part A, B & C - Pallet: 48 pails/ pallet.

Commercial Unit (2 cartons) – [#4]:

1. 4 x Part A & B - Pallet: 60 Cartons / Pallet
2. 4 x Part C – 48 Cartons / Pallet

Colors: Available in a wide range of LATICRETE® colors, please refer our Grout and Sealant color chart, contact your local LATICRETE sales representative for details.

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**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) |

TCA-092-92

| 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® materials are available worldwide.

For distributor information,

please contact us by email at: enquiry@laticrete.me or, visit www.laticrete.me

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants this product will not deteriorate under normal conditions and use, the warranty validity of one (1) year. The product subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our technical support for further information.

MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. Contact the cleaner manufacturer if another cleaner type will be used to ensure compatibility with the grout. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers. Routine maintenance can be done with detergents and a sponge or mop. For tough or difficult to remove soil, a bleaching cleaner (e.g. Soft Scrub, Comet, Ajax, etc. or electric dish washing

detergent) on a nylon scrubbing pad or a long handled stiff bristle brush can be used. Please note: Prior to using any cleaning material on a tile, etc. installation, test a discrete area or scrap piece of tile to insure desired results. For additional information, please refer to the LATICRETE Grout Guide, TDS 400.

TECHNICAL SERVICES

Technical assistance

For information contact us by email at:

enquiry@laticrete.me

Technical and safety literature

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

Warning: The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must 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.
