

1. PRODUCT NAME

LATAPOXY® GP100 General Purpose Epoxy

2. MANUFACTURER

LATICRETE Pty Ltd.
464 Geelong Road,
Footscray West. VIC. 3012.
Telephone: 03 99336111
Toll Free: 1800331012
FAX: 03 99336199
Email: laticreteoz@laticrete.com.au
Internet: www.laticrete.com

3. PRODUCT DESCRIPTION

LATAPOXY GP-100 General Purpose Epoxy is a thixotropic gel type, vertical grade, multipurpose epoxy for priming, patching, bonding, flushing, sealing, painting or grouting a variety of materials including steel, aluminum, masonry, timber, fiberglass, glass, tile, stone, most plastics and other surfaces. Cleans with water while fresh. Can be used for interior and exterior applications.

Uses

Commercial - Cafeterias, Laboratories, Malls, Restrooms, Swimming Pools

Residential - Kitchen Floors, Countertops, Bathrooms, Foyers

LATAPOXY GP-100 General Purpose epoxy is available in handy to use commercial sized kits of 1.2 litres.

Advantages

- Non Sag
- Bonds to a variety of difficult to bond to surfaces.
- Specially formulated to install moisture sensitive stone and agglomerates.
- Thinbed tile installations on Post-Tensioned concrete slabs.
- Will install wood parquet, vinyl tiles and rubber flooring.
- Chemical Resistant - 100% solids epoxy resists many acids, alkalis and corrosives
- Durable - will not peel, crack or powder
- Easy to clean with water when fresh.
- Easy to Use - no noxious odor, nonflammable, water cleanable.

Packaging

Complete Unit consists of Resin and Hardener Parts A and Part B.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years if stored in a protected area.

Limitations

- Suitable for exterior applications. May darken slightly from direct UV exposure. Consult LATICRETE Technical Services for recommendations on exterior applications.
- For industrial grouting applications exposed to high concentrations of food, mineral acids and high temperatures, use LATAPOXY® 2000 Industrial Epoxy Grout.
- Slab or substrate temperature should be at least 10 ° C and rising and not more than 32 ° C.
- Some soft polished marble or delicate glazed tile may be scratched by LATAPOXY GP-100 if used as a grout with sand or coarse particles. Apply a small test area to determine results before grouting entire installation.
- Epoxy adhesive or grout for ceramic tile, and stone is not a replacement for a waterproof membrane. When a waterproof membrane is required, use a LATICRETE Waterproof Membrane.

Cautions

- During cold weather, protect finished work from traffic until fully cured.
- The mixed liquids may alter the colour of fillers and other coloured powders to produce an unacceptable outcome. Test prior to use where colour is important.
- Until cured, LATAPOXY GP-100 may irritate eyes and skin. Avoid contact with eyes and 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.
- Keep out of reach of children.

4. TECHNICAL DATA

Performance Properties when used with 3kgs of 200um silica sand

Test/Test Method	Results
Tensile Strength ANSI 118.3-1999; E-5.7	10.7 MPa
Compressive Strength ANSI 118.3-1999; E-5.6	45.7 MPa
Thermal Shock Resistance ANSI 118.3-1999; E-5.8	>7.6 MPa
Shrinkage ANSI 118.3-1999; E-5.3	0.19%
Sag Resistance ANSI 118.3-1999; E-5.4	Pass
Water Cleanability ANSI 118.3-1999; E-5.1	>80 minutes

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.

Working Properties 21°C

Working Time	1 hour
Foot Traffic	6 hours

Heavy Traffic	24 hours
Wet Density	1590 kg/m ³

CHEMICAL RESISTANCE CHART at 75°F (23°C)			
CHEMICAL NAME	Continuous Exposure	Intermittent Exposure	Splash Exposure
Milk	R	R	R
**Wine	R	R	R
Ethanol	NR (soft)	R	R
**Potassium Permanganate 10%	NR	R	R
**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% Saturated	R	R	R
Benzoic Acid 5%	R	R	R
Sea Water	R	R	R
Fruit Juice	R	R	R
Methanol	NR	NR	R
Mek	NR	NR	R
Chloroform	NR	NR	R
Methylene Chloride	NR	NR	NR
Toluene	NR	NR	R
Xylene	NR	NR	R

*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 C267-1982.

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

**Long exposure may discolor Epoxy.

5. INSTALLATION

Surface Preparation

Before starting clean areas to be treated. Remove dust and dirt using a damp sponge. Do not leave water standing in on surfaces to be treated. Do not clean surfaces with acid based cleaners. Substrate temperature must be 10°C and rising and not more than 32°C. Polyester or fiberglass surfaces should be sanded prior to the application of the GP-100. Lightly sand to clean and remove waxes and mould releases from surfaces. Metals should be brushed back to bright and coated with GP-100 liquids only prior to adhesive work in critical installations.

NOTE: Temperature will effect working properties of LATAPOXY GP-100 Epoxy. Warm temperatures will speed curing and shorten working time. Cool temperatures will slow curing and require longer time to traffic. Store LATAPOXY GP-100 Epoxy at 21°C for 24 hours prior to use.

Mixing - Pour LATAPOXY GP-100 Part A and Part B into a clean mixing pail and mix thoroughly by hand or with a slow speed mixer (<300 RPM) until liquids are completely blended and of one uniform colour. As required add

washed and kilned dried silica sand filler powder (approximately 200um) and mix until uniformly blended.

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 insure full bedding of the tile. Back butter large tiles to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile.

Cleaning - Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it diagonally across the joints and tile to avoid pulling out the material. Clean using a white nylon pad and plenty of cool, clean water. For detailed application instructions and coverage information refer to Data Sheet 631.5.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® materials are available worldwide. For distributor information, call:

Toll Free: 1800331012

Telephone: 03 99336111

For on-line distributor information, visit LATICRETE at www.LATICRETE.com.

Cost - Contact a LATICRETE Distributor in your area.

7. WARRANTY

LATICRETE International, Inc. warrants that LATAPOXY GP-100 General Purpose Epoxy is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of ten (10) year from date of purchase subject to the terms and conditions stated in LATICRETE Product Warranty.

8. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE

Technical Service:

Toll Free: 1800331012

Telephone: 03 99336111

Email: techservice@laticrete.com.au

Technical and safety literature

- 1800331012 to receive data