



LATAPOXY® 2000 Industrial Grout

DS-634.0-0310



1. PRODUCT NAME

LATAPOXY® 2000 Industrial Grout

2. MANUFACTURER

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 235

Toll Free: 1.800.243.4788, ext. 235

Fax: +1.203.393.1684

Internet: www.laticrete.com

3. PRODUCT DESCRIPTION

LATAPOXY 2000 Industrial Grout is a highly chemical resistant industrial grade epoxy grout for: ceramic tile, pavers, floor brick, packing house tile and stone. LATAPOXY 2000 Industrial Grout is supplied as factory proportioned kits consisting of epoxy resin, hardener, and chemical resistant silica filler.

Usage—Use in corrosive environments such as:

Industrial—bakeries, dairies, cheese factories, breweries, CIP rooms, meat packing plants, soft drink plants, confectioneries, canneries, distilleries, pharmaceutical factories, veterinary, hospitals, clinics and kennels.

Commercial—institutional kitchens, fast food restaurants, cafeterias, laboratories, supermarkets.

Advantages

- High chemical resistance
- Improved temperature resistance
- Maximum physical strength
- Highly resistant to bacteria attack
- Exceeds ANSI 118.3 (Epoxy) and ANSI 118.5 (Furan) performance requirements
- Water cleanable
- Fast curing
- Cures at low temperature

Packaging

2 Unit Pail Kit (Complete Unit) Unit Net Weight 26 lb (11.8 kg) 48 Pails Per Pallet

2 Unit Pail (Liquid Only) Unit Net Weight 11 lb (4.9 kg) 48 Pails Per Pallet

#4 Unit Carton (Liquid Only) Unit Weight 16 lb (7.3 kg) 56 Cartons Per Pallet

Colors: LATAPOXY 2000 PART C Filler Powder best used with the following grout colors: 22, 24, 35, 46. Custom colors available on request.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years.

Limitations

- Maximum chemical resistance is achieved in seven (7) days at 70°F (21°C). Protect from exposure to strong chemicals until fully cured; at colder temperatures it takes longer to achieve full cure.
- Grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEM).
- Not for use with Bright White or light colored grouts.
- Please consult with LATICRETE Technical Services for specific recommendations, if grout will be exposed to chemicals other than those indicated on the chemical resistant chart.

Cautions

Consult MSDS for more safety information.

- Protect finished work from chemical exposure, dirt and traffic until fully cured.
- Until cured, LATAPOXY 2000 Industrial Grout 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

Applicable Standards

ANSI A118.3, ANSI A118.5 (American)

Performance Properties



Registration #140541

NSF Registration assures inspection officials and end users that formulation and labels meet appropriate food safety regulation. NSF International launched its voluntary Non-food Compounds Registration Program in 1999 to re-introduce the previous authorization program administered by the U.S. Department of Agriculture (USDA).

EVALUATION PER ANSI A118.3-1999		
PROPERTY	VALUE	
TEST/ NO.	EVALUATION	REQUIREMENT
Water Cleanability (E5.1)	Pass	80 min.
Initial Setting Time (E5.2)	Pass	> 2.0 hrs.
Service Setting Time (E5.2)	Pass	< 7 days
Shrinkage (E5.3)	0.07%	< 0.25%
Sag(E5.4)	Pass	no change
Quarry Shear Bonds (E5.5)	1000 PSI (6.9MPa)*	> 1000 psi (6.9 MPa)
Compressive Strength (E5.6)	15500 PSI (107 MPa)	> 3500 psi (24 MPa)
Tensile Strength (E5.7)	2600 PSI (18MPa)	> 1000 psi (6.9 MPa)
Thermal Shock (E5.8)	500 PSI (3.4MPa)	> 500 psi (3.4 MPa)

* Tile Failed During Test TCA-o61-93

EVALUATION PER ANSI A118.5-1999			
Property	Test Method	Evaluation	Grout Requirement Silica
Compressive Strength	ASTM C579	14700 PSI (101MPa)	3000 psi (21 MPa)
Tensile Strength	ASTM C307	2577 PSI (17.7 MPa)	400 psi (2.75 MPa)
Absorption	ASTM C413	0.16%	Max. 1%
Modulus of Rupture	ASTM C580	5300 psi (37 MPa)	600 psi (4.1 MPa)
Initial Set, Hours	ASTM C308	4	Max 5
Final Set, Days	ASTM C308	2	Max 7
Linear Shrinkage	ASTM C531	0.27%	Max. 1%
Working Time Minutes	ASTM C308	35	Min. 10
Bond Strength	ASTM C321	Pass*	150 psi (1 MPa)

* Brick Failed During Test TCA-o89-13

SERVICE TEMPERATURE RANGE**	
Intermittent Exposure	up to 360°F/182°C
Constant Exposure	up to 185°F/80°C

** Service Temperature Exposure defined as: Intermittent—where hot materials, liquids or steam come in contact with grout for a short time.

Constant—where grout is subjected to continuous heat such as under a bakery oven.

Working Properties (70°F [21°C])

Working Time	35 minutes
Wet Density	112 lbs/ft ³ (1800 kg/m ³)

Time to Traffic

CURE TIME			
FLOOR TEMPERATURE	TIME TO LIGHT TRAFFIC*	TIME TO HEAVY TRAFFIC**	FULL CURE***
40°F (4°C)	24 Hours	48 Hours	7 Days
50°F (10°C)	20 Hours	32 Hours	7 Days
60°F (16°C)	16 Hours	24 Hours	7 Days
70°F (21°C)	5 Hours	10 Hours	5 Days
80°F (27°C)	4 Hours	7 Hours	1 Day
90°F (32.2°C)	2 Hours	3 Hours	12 Hours

* Foot Traffic

** Place Equipment

*** Exposure to Chemical and Heat

Chemical Resistance* Chart			
Chemical Name	Continuous Exposure	Inter-mittent Exposure	Splash Exposure
Food Acids			
Lactic to 10%	R	R	R
Acetic to 10%	R	R	R
Formic to 5%	R	R	R
Citric to 50%	R	R	R
Tartaric to 50%	R	R	R
Tannic to 50%	R	R	R

Oleic to 100%	R	R	R
Phosphoric to 80%	R	R	R
Mineral Acids			
Hydroflouric acid** 10%	R	R	R
Sulfuric to 50%**	R	R	R
Nitric to 30%**	R	R	R
Hydrochloric to** 36.5%	R	R	R
Corrosive Cleaners			
Sodium Hypochlorite** (Bleach) 3%	R	R	R
Sodium Hydroxide (Saturated)	R	R	R
Solvents			
Xylene	R	R	R
Ethyl Alcohol	R	R	R
Mineral Spirits	R	R	R
Toluene	R	R	R
Methylene Chloride	NR	NR	NR
Gasoline	R	R	R

* Chemical Resistance defined as:

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 C267-1999.

** Long Exposure will cause color change.

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

Before starting to grout remove spacers and debris in grout and remove dust and dirt using a damp sponge. Do not leave water standing in joints. Do not clean tiles with acid cleaners. Substrate temperature must be between 45°F (7°C) and 90°F (32°C).

Note: Temperature will affect working properties of LATAPOXY®2000 Industrial Grout. Warm temperatures will speed curing and shorten working time. Cool temperatures will slow curing and require longer time to traffic. Store LATAPOXY 2000 Industrial Grout at 70°F (21°C) for 24 hours prior to use.

Mixing

Pour LATAPOXY 2000 Industrial Grout 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. Note: For vertical installations add LATICRETE Part D Non-Sag Additive at this time. Add LATAPOXY 2000 Part C Filler Powder and mix until uniformly blended.

Application

Immediately pour entire contents of pail onto a flat surface (Do Not Leave in Pail). Spread with a sharp, firm rubber grout float. Work the grout paste into the joints until completely filled. Use diagonal strokes to pack the joints. Insure that joint is filled and grout is not just sitting on top (i.e. “bridging the joint”).

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 Intl.

6. AVAILABILITY AND COST

Availability

LATICRETE® and LATAPOXY® materials are available worldwide.

For distributor information, call:

Toll Free: 1.800.243.4788
Telephone: +1.203.393.0010

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

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM

DS 230.13: LATICRETE Product Warranty

A component of:

DS 025.0: LATICRETE 25 Year Systems Warranty

8. 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.

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the LATICRETE Technical Service Hotline (hours 8:00 AM to 5:30 PM EST):

Toll Free: 1.800.243.4788, ext. 235
Telephone: +1.203.393.0010, ext. 235
Fax: +1.203.393.1948

Technical and safety literature

To acquire technical and safety literature, please visit our website at www.laticrete.com.

10. FILING SYSTEM

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

DS 230.13: LATICRETE Product Warranty
DS 025.0: LATICRETE 25 Year Systems Warranty
DS 236.0: LATICRETE 9235 Waterproofing Membrane
DS 663.0: LATICRETE Hydro Ban™
DS 631.5 Intl: How to Install LATAPOXY Adhesives and Grouts