



Globally Proven
Construction Solutions

SPECTRALOCK® 2000 IG

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



FEATURES/BENEFITS

- 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
- Inhibits the growth of stain-causing mold and mildew in the grout joints with Microban® antimicrobial product protection.
- Grout may remain in pail while curing

MANUFACTURER/ DISTRIBUTED BY

LATICRETE South East Asia Pte Ltd (Level 2, A3)
No. 38 Sungei Kadut, Street 2, Singapore 729245
Telephone: +65 6515 3028 Fax: +65 6515 3037
Internet: se.laticrete.com



USES

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

STANDARDS/CERTIFICATIONS

- ANSI A118.3-1999, American National Standard Specifications for Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive
- ANSI A118.5-1999, American National Standard Specifications for Chemical Resistant Furan Mortars and Grouts for Tile Installation
- ISO 13007-IRG



This product has been certified green under the UL GREENGUARD Certification Program.

Packaging**# 2 Unit Pail Kit (Complete Unit)**

Unit Net Weight 28.5 lb (12.96 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

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

Coverage

Refer to Coverage Chart.

Actual coverage will vary depending on job site conditions, actual tile size and installed grout joint size. Add 10% for waste, spillage and clean-up, and another 10%–15% when grouting unglazed quarry tile.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) years, at temperatures $>0^{\circ}\text{C}$ and $<40^{\circ}\text{C}$.

Limitations

- Maximum chemical resistance is achieved in seven (7) days at 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 LATICRETE Waterproofing Membrane.
- 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.

TECHNICAL DATA**Performance Properties**

EVALUATION PER ANSI A118.3-1999		
Test	Specification	Result
Water Cleanability (E5.1)	80 min.	Pass
Initial Setting Time (E5.2)	>2.0 hrs.	Pass
Service Setting Time (E5.2)	<7 days	Pass

Shrinkage (E5.3)	$<0.25\%$	0.07%
Sag(E5.4)	no change	Pass
Quarry Shear Bonds (E5.5)	$\geq 6.9\text{N/mm}^2$	$>6.9\text{N/mm}^2$ *
Compressive Strength (E5.6)	$\geq 24\text{N/mm}^2$	$>106\text{N/mm}^2$
Tensile Strength (E5.7)	$\geq 6.9\text{N/mm}^2$	$>17\text{N/mm}^2$
Thermal Shock (E5.8)	$\geq 3.4\text{N/mm}^2$	$>3.4\text{N/mm}^2$

* Tile Failed During Test TCA-061-93

Evaluation Per ANSI A118.5-1999			
Test	Test Method	Specification	Result
Compressive Strength	ASTM C579	$\geq 21\text{N/mm}^2$	$>100\text{N/mm}^2$
Tensile Strength	ASTM C307	$\geq 2.75\text{N/mm}^2$	$>17\text{N/mm}^2$
Absorption	ASTM C413	Max. 1%	0.16%
Modulus of Rupture	ASTM C580	$\geq 4.1\text{N/mm}^2$	$>36\text{N/mm}^2$
Initial Set, Hours	ASTM C308	Max 5	2
Final Set, Days	ASTM C308	Max 7	6
Linear Shrinkage	ASTM C531	Max .1%	$<0.06\%$
Working Time Minutes	ASTM C308	Min. 10	35
Bond Strength	ASTM C321	$>1\text{N/mm}^2$	Pass*

* Brick Failed During Test TCA-089-13

Service Temperature Range**	
Intermittent Exposure	up to 182°C
Constant Exposure	up to 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

Working Time	35 minutes
Wet Density	1800 kg/m ³

Time to Traffic

Cure Time			
Floor Temperature	Time To Light Traffic*	Time To Heavy Traffic **	Full Cure***
4°C	24 hours	48 hours	7 days
10°C	20 hours	32 hours	7 days
16°C	16 hours	24 hours	7 days
21°C	5 hours	10 hours	5 days
27°C	4 hours	7 hours	1 days
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	Intermittent 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			
Hydrofluoric acid** 10%	R	R	R
Sulfuric to 50%**	R	R	R
Mineral Acids			
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.

INSTALLATION

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 8°C and 35°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 21°C for 24 hours prior to use.

Mixing

Pour SPECTRALOCK 2000 IG Part A and Part B into a clean mixing pail and mix thoroughly with a drill mixer until liquids are completely blended. Add all of the Part C powder. The mix will look thick at the beginning. Whip it thoroughly with high speed mixer (>450 rpm) until uniformly blended (Minimum 2 Minutes). This will aerate the grout to a very fluffy mix.

Application

For maximum pot life, remove grout from bucket and spread on floor or plastic sheeting. Spread the grout with sharp, firm rubber grout float. Work the grout paste into the joints. Insure the joint is filled and grout is not sitting on top. Remove excess grout from the face of the tiles with the edge of the grout float. Hold the float at 90° angle and pull it diagonally across the joints and tile to avoid pulling out the material.

Initial Cleaning – USE INITIAL WASH CLEANING ADDITIVE. Once grout has been spread, wait approximately 30 minutes at 70°F (21°C) prior

to beginning initial wash. Add Initial Wash cleaning additive to 2 gals (7.6ℓ) of clean water and mix until fully dissolved. Do not mix cleaning additive with grout. Wipe grout joints and tile surface with a white nylon pad and plenty of water (with the cleaning additive) using a circular motion. Drag a damp clean sponge diagonally over the scrubbed surface to remove grout residue.

Final Cleaning – USE FINAL WASH CLEANING ADDITIVE. Wait at least 90 minutes after the initial wash at 70°F (21°C) for the final wash using the same procedure as in the initial wash. Prepare another two gallons of clean water and add the Final Wash cleaning additive and mix until fully dissolved. In the final wash avoid contact with the grout – clean tile surface only.

AVAILABILITY AND COST

Availability

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

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

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

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE International warrants SPECTRALOCK 2000 IG is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to terms and conditions.

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.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

LATICRETE South East Asia Pte Ltd
(Level 2, A3)

No. 38 Sungei Kadut, Street 2,
Singapore 729245

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

Email: enquiry@laticrete.com.sg

Technical and safety literature

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