SpectraLOCK® PRO Grout

United States Invention Patent No.: 6881768 (and other Patents)

DS-685.0-0310

1. PRODUCT NAME

LATICRETE® SpectraLOCK® PRO Grout
United States Invention Patent No.: 6881768 (and other Patents)

2. MANUFACTURER

LATICRETE International, Inc.
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Internet: **www.laticrete.com**

3. PRODUCT DESCRIPTION

LATICRETE SpectraLOCK PRO Grout is a patented, high performance epoxy grout that offers color uniformity, durability and stain resistance with extraordinary ease of use.

Uses

- Ceramic tile, glass tile and stone applications, residential and commercial.
- Interior and exterior.
- Floors and walls.
- Ideal for re-grouting applications.
- Swimming pools, fountains and other wet area applications.

Advantages

- Meets performance requirements of ANSI A118.3–1999.
- 80 minutes working time at 70°F (21°C).
- Inhibits the growth of stain-causing mold and mildew in the grout joints with Microban® antimicrobial product protection.
- Ideal for installations at wide temperature ranges.
- Uniform color—no blotchiness or shading.
- Easy to maintain, cleanable to the original color.
- Stain resistant.
- Tough, durable, and crack resistant.
- Outperforms cement based grout.
- Non-sag formula for walls and floors.
- High fashion with Dazzle component.

Packaging

Unit Size	Yield	Parts A & B	Part C Color Powder
Mini	0.2 US gal (0.7 ℓ)	A: 0.32 lb (0.14 kg) B: 0.32 lb (0.14 kg)	C: 2.25 lb (1.0 kg)
Full	0.8 US gal (3.0 ℓ)	A: 1.28 lb (0.6 kg) B: 1.28 lb (0.6 kg)	C: 9.0 lb (4.0 kg)
Commercial	3.2 US gal (12.0 ℓ)	A: 4 x 1.28 lb (0.6 kg) B: 4 x 1.28 lb (0.6 kg)	C: 4 x 9.0 lb (4.0 kg)

Approximate Coverage

Refer to Coverage Chart located on Data Sheet 254.3 HC.

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. Expanded coverage tables at **www.laticrete.com/coverage**.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for the time listed below if stored at temperatures greater than 32°F (0°C) and less than 95°F (35°C).

Part A & B Liquids – two (2) years

Part C Powder – no limit*

* High humidity will reduce the shelf life of bagged product.

Limitations

- Not for use in areas subjected to harsh chemicals, or areas exposed to aggressive cleaning regimens (e.g. steam cleaning). Not for use on floor and base areas in veterinary clinics, kennels, or in applications exposed to high concentrations of food and mineral acids or areas exposed to high temperatures. For these areas LATICRETE recommends using grout that meets ANSI A118.5 such as LATAPOXY® 2000 Industrial Grout.
- Epoxy grout for ceramic tile and stone is not a replacement for a waterproofing membrane. When a waterproofing membrane is required, use a LATICRETE Waterproofing Membrane (see Section 10 FILING SYSTEMS).
- LATICRETE SpectraLOCK PRO Grout should not be used on floors and base in the food preparation or cleaning area of commercial and industrial kitchen applications.

Cautions

- DO NOT add water or any other material to the mixture, or re-temper with water. This will have an adverse effect on the product and void all warranties.
- Protect finished work from traffic until fully cured.
- LATICRETE SpectraLOCK PRO Grout liquid components might irritate eyes and skin. Avoid contact with eyes and/or prolonged contact with skin.
- Wear protective gear (gloves, long sleeve shirt, and safety glasses) when applying. Flush thoroughly with water in case of initial contact.

- DO NOT ingest internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator or dust mask. See MSDS for more information.
- Keep out of reach of children.
- Protect from freezing.
- Light colors may darken and dark colors may fade slightly from direct UV exposure in exterior applications. Consult with LATICRETE Technical Services for specific exterior recommendations.
- LATICRETE® SpectraLOCK® Dazzle (Glow) not for use in submerged installations.
- Maximum stain resistance is achieved in seven days at 70°F (21°C). Protect from exposure to acids (such as mustard, salad dressing, etc.) and strong cleaners during this period. Protect grout from dirt, construction debris, and contamination for 7 days @ 70°F (21°C).
- LATICRETE SpectraLOCK PRO Grout is a sanded grout. Use of sanded grouts in joints <1/8" (3 mm) will result in a coarser surface compared to surfaces in wider joints.
- LATICRETE SpectraLOCK Dazzle (Glow) might discolor from strong alkali cleaners and acids. Use a neutral pH solution of soap and water when cleaning LATICRETE SpectraLOCK PRO Grout mixed with LATICRETE SpectraLOCK Dazzle (Glow).
- Some soft polished marble or delicate glazed or glass tile might be scratched by LATICRETE SpectraLOCK PRO Grout during installation. Apply a small test area to determine results before grouting entire installation.
- In steam rooms or submerged applications, allow LATICRETE SpectraLOCK PRO Grout to cure for 10 days at 70°F (21°C) days before use of area and filing with water. See TDS 192 for more information on these applications.
- LATICRETE SpectraLOCK PRO Grout is resistant to staining when exposed to most household products and cleaners (e.g. ketchup). However, long term exposure to any material without proper cleaning and maintenance will increase the probability of stains.
- Epoxy Resins may affect the color of white or porous stones (such as White Carrara, Thasos White, Royal Danby etc.)
- Test stones for compatability with water and cleaning additive mixture.
- Conduct a test area to determine compatibility with metal or steel tile.

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4. TECHNICAL DATA

VOC/LEED Product Information

This product has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD Standard for Low Emitting Products in finished form.

Total VOC Content pounds/gallon (grams/liter) of product in unused form is 0.00026 lb/gal (0.031 g/ℓ).

Applicable Standard

ANSI A118.3 tested with 1244 Bright White

Physical Properties

Test/Test Method	Description	Results
ANSI A118.3 E5.1	Water Cleanability	Water Cleanable at 80 minutes
ANSI A118.3 E5.2	Initial Set Service Strength	> 2 hours < 24 hours
ANSI A118.3 E5.3	Shrinkage	< 0.25%
ANSI A118.3 E5.4	Vertical Joint Sag	Pass
ANSI A118.3 E5.5	Quarry/Quarry Bond Strength	1,000 psi (tile failure) 6.9 MPa
ANSI A118.3 E5.6	Compressive Strength	3,500 psi (7 days) 24 MPa
ANSI A118.3 E5.7	Tensile Strength	1,100 psi (7 days) 7.6 MPa
ANSI A118.3 E5.8	Thermal Shock	510 psi 3.5 MPa
ANSI A118.3	Water Absorption	< 0.50%

Chemical Resistance* Chart

Chemical Name	Splash Exposure (30 min)	Intermittent Exposure (24 hours)	Continuous Exposure (7 days)
20% Sulfuric Acid	R	R*	NR*
5% Lactic Acid (Milk)	R	R	R
50% Tannic Acid	R	R	R
50% Tartaric Acid	R	R	R
10% Oxalic Acid	R	R	R
5% Acetic Acid (Vinegar)	R	R	R
5% Benzoic Acid	R	R	R
3% Formic Acid	R	R	NR
5% Citric Acid (Gatorade Drink)	R	R	R
10% Potassium Permanganate	R*	R*	R*
1% Potassium Permanganate	R*	R*	R*
5% Sodium Hypochlorite (Bleach)	R	R	NR
45% KOH (Cascade)	R	R	R
Distilled Water	R	R	R

Chemical Resistance* Chart

Chemical Name	Splash Exposure (30 min.)	Intermittent Exposure (24 hours)	Continuous Exposure (7 days)
Mineral Water	R	R	R
Sea Water	R	R	R
Methanol	R	NR	NR
10% Ethanol (wine, beer)	R	R	R
96% Ethanol (Spirit)	R	R	NR
Isopropanol (Windex)	R	R	R
Mek	R	NR	NR
Chloroform	NR	NR	NR
Methylene Chloride	NR	NR	NR
Toluene	R	R	NR
Xylene	R	R	R

* Material will stain due to exposure to these items.
R=Recommended NR=Not Recommended. Chemical Resistance determined in accordance with ASTM C267-1982.

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

Working Properties

Density—15 lbs/gal (1.8 g/ml)

Test Standard	Temperature			
		40°F (4°C)	70° (21°C)	95°F (35°C)
ANSI A118.3 E–5.1	Working Time	120 min.	80 min.	30 min.
LIL-AS-01-110904	Tack Free Time	12 hrs.	4 hrs.	2 hrs.
LIL-AS-01-110904	Ready for Light Foot Traffic	24 hrs.	12 hrs.	6 hrs.
LIL-AS-01-110904	Ready for Heavy Foot Traffic	48 hrs.	24 hrs.	12 hrs.
LIL-AS-02-110904	Dirt, Stain Resistance, Food Spills, Household Cleaners	14 days	7 days	3 days
LIL-AS-03-110904	Full Cure	28 days	14 days	7 days

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

See Data Sheet 685.5, How To Install LATICRETE® SpectraLOCK®† PRO Grout, for detailed installation instructions. This document is available online at **www.laticrete.com** and is included in all Part AB units.

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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 System Warranty
DS 230.99: LATICRETE Lifetime System 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. For additional information, please refer to the LATICRETE Grout Selection and Maintenance Guide, TDS #400.

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 System Warranty
DS 230.99: LATICRETE Lifetime System Warranty
DS 634.0: LATAPOXY 2000 Industrial Grout
DS 236.0: LATICRETE 9235 Waterproofing Membrane
DS 685.5: How To Install LATICRETE SpectraLOCK PRO Grout
TDS 400: LATICRETE Grout Guide
TDS 192: Installation of Ceramic Tile In Swimming Pools.
DS 663.0: LATICRETE Hydro Ban™

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