



# PermaColor™ Grout

United States Patent No.: 6784229 B2 (and other Patents).

DS-250.0-1109



## 1. PRODUCT NAME

LATICRETE® PermaColor™ Grout

United States Patent No.: 6784229 B2 (and other Patents).

## 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](http://www.laticrete.com)

## 3. PRODUCT DESCRIPTION

LATICRETE PermaColor Grout is a high performance grout that provides a grout joint that is dense and hard. LATICRETE PermaColor Grout is color consistent. Mix only with water.

### Advantages

- Consistent Color
- Mixes With Water Only
- Ideal For Floors and Walls ( Joint Widths of 1/16–1/2" [1.5 to 12 mm])
- Inhibits Mold and Mildew with Microban®
- Component of LATICRETE 15 Year Residential Warranty (see DS 230.14)
- Improved Stain Resistance For a Cement Based Grout
- Interior and Exterior Applications
- Residential and Commercial
- Conforms to ISO 13007 (CG2 WA) and EN 13888 (CG2WA) classification.

### Packaging

25 lb (11.3 kg) bags

8 lb (3.6 kg) cartons

### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for the time period listed below if stored off the ground in a dry area.

25 lb (11.3 kg) bags – one (1) year

8 lb (3.6 kg) cartons – two (2) years

## Limitations

- 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 a LATICRETE Waterproofing Membrane (see Section 10 **FILING SYSTEM**).
- **Note:** Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.
- **DO NOT** use for chemical resistance. Use LATAPOXY® 2000 Industrial Grout when chemical resistance is required.
- **DO NOT** use acid to clean colored grout joints.
- Job site conditions will affect the final color of colored grouts. Try a small test area to determine your results before grouting the entire installation.
- Certain types of tile are more absorbent than others and will trap color pigment during grouting. Prior to grouting, test for absorption of color pigment. Porous tiles will need to be sealed prior to grouting.
- Selecting Other Grouting Materials: LATICRETE has grouting materials designed for every use. For installations that require high strength and chemical resistance choose LATAPOXY 2000 Industrial Grout. This product is ideal for installations where a stain resistant colorfast grout is desired.

## Cautions

Consult MSDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and 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.
- Grout may scratch soft glazed or polished surfaces. Conduct a test area to verify results
- In submerged applications or steam rooms allow LATICRETE PermaColor Grout to cure for 14 days at 70°F (21°C) before use of area. See TDS 192 for more information on these applications.
- Keep out of reach of children.

## 4. TECHNICAL DATA

### Applicable Standards

(ANSI A118.6, A118.7, EN 13888 & ISO 13007)

## Physical Properties

Tensile Strength (28 Day)	510 psi (3.5 MPa)
Compressive Strength	4500 psi (31.0 MPa)
Flexural Strength	1250 psi (8.62 MPa)
Linear Shrinkage (7 day)	0.0450%

Test	Test Method	ISO 13007-3 CG2WA Specification	Results
28 day cure abrasion resistance	ISO 13007-4 4.4	Less than or equal to 1000 mm <sup>3</sup> (0.061 in <sup>3</sup> )	184–359 mm <sup>3</sup> (0.011–0.021 in <sup>3</sup> )
28 day cure flexural strength	ISO 13007-4 4.1.3	Greater than 2.5 MPa (362 psi)	8.6–9.4 MPa (1365–1247 psi)
6 day 21 day water soak 25 freeze/thaw cycle flexural strength	ISO 13007-4 4.1.3	Greater than 2.5 MPa (362 psi)	3.31–3.79 MPa (480–550 psi)
28 day cure compressive strength	ISO 13007-4 4.1.4	Greater than 15 MPa (2175 psi)	35.7–36.8 MPa (5176–5339 psi)
6 day 21 day water soak 25 freeze/thaw cycle compressive strength	ISO 13007-4 4.1.4	Greater than 15 MPa (2175 psi)	30.4–31.2 MPa (4408–4518 psi)
28 day cure shrinkage	ISO 13007-4 4.3	Less than 3 mm/m (0.12 in./3.28 ft)	0.51–0.62 mm/m (0.02–0.024 in/3.28 ft)
28 day water absorption soaked 30 minutes	ISO 13007-4 4.2	Less than 2 g (0.0044 lb)	0.54–0.7 g (0.0012–0.0015 lb)
28 day water absorption soaked 240 minutes	ISO 13007-4 4.2	Less than 5 g (0.011 lb)	0.54–0.7 g (0.0012–0.0015 lb)

## Working Properties

Pot Life	40–60 min at 70°F (21°C)
Final Set	3 hrs
Heavy Foot Traffic	6 hrs

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 joints and remove dust and dirt using a wet sponge. Do not leave water standing in joints. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or sealer if necessary. Refer to LATICRETE® Grout Troubleshooting Guide for more information on grouting.

### Mixing

Use approximately 2 quarts (1.9 l) of clean potable water for 25 lbs (11.3 kg) of LATICRETE PermaColor™ Grout. No additive required. Do not use with LATICRETE 1776 Grout Enhancer or any other latex additive. Place water in a clean mixing container and add grout powder. Mix with a slow speed drill mixer (300 rpm) for 1 minute. Wait for 5 minutes and remix with drill for 1 minute.

### Application

Clean tile surface with a damp sponge. Spread with a sharp, firm rubber grout float or wall float for narrow wall joints. To remove excess grout hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints to avoid pulling out the material.

**Note:** If the grout begins to stiffen during installation, remix with drill mixer for 10–15 seconds. DO NOT ADD MORE WATER!

### Cleaning

Wait 15–20 minutes at 70°F (21°C). For wider joints or cooler temperatures wait longer (25–30 minutes) Begin initial cleaning by lightly wiping down entire area to be cleaned with a damp sponge. Wash with a damp sponge (not wet). Work diagonally to the joints. Allow to dry 3 hours at 70°F (21°C). For second cleaning use a damp sponge or dry cloth to remove remaining grout haze.

**Note:** Use caution when polishing soft glazed tiles or polished stone.

If grout is to be sealed, LATICRETE generally recommends waiting a minimum of a 48 hours at 70°F (21°C) prior to sealing LATICRETE PermaColor Grout, or any other cement-based LATICRETE grout;

however, we suggest deferring to the written recommendations of the sealer manufacturer to make the final determination, as certain sealers may require the cement grout to cure for an extended period of time.

## 6. AVAILABILITY AND COST

### Availability

LATICRETE and LATAPOXY® materials are available worldwide.

For Distributor information:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at [www.laticrete.com](http://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 230.15: LATICRETE 10 Year Warranty for Steel or Wood Framed Exterior Facades

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. 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](http://www.laticrete.com).

## 10. FILING SYSTEM

Additional product information is available on our website at [www.laticrete.com](http://www.laticrete.com). The following is a list of related documents:

DS 230.13: LATICRETE Product Warranty

DS 230.15: LATICRETE 10 Year Warranty for Steel or Wood Framed Exterior Facades

DS 025.0: LATICRETE 25 Year System Warranty

DS 230.99: LATICRETE Lifetime System Warranty

DS 236.0: LATICRETE 9235 Waterproofing Membrane

DS 663.0: LATICRETE Hydro Ban™

TDS 192: Installation of Ceramic Tile in Swimming Pools

DS 634.0: LATAPOXY 2000 Industrial Grout

LATICRETE International, Inc.

One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • [www.laticrete.com](http://www.laticrete.com)

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