PERMACOLOR® Grout^

DS-250.0-0514

Globally Proven Construction Solutions



1. PRODUCT NAME
PERMACOLOR® 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
PERMACOLOR Grout is a high performance, fast setting grout that provides a grout joint that is dense and hard. PERMACOLOR Grout is color consistent. Mix only with water.

Advantages
- Consistent color
- Fast setting
- 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® 25 Year System Warranty (United States and Canada) (DS 025.0) and LATICRETE Lifetime Warranty (United States and Canada) (DS 230.99)
- Improved stain resistance for a cement based grout
- Interior and exterior applications
- Residential and commercial
- Conforms to ISO 13007 and EN 13888 (CG2WA)
- Meets ANSI A118.7 requirements

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).
- Use SPECTRALOCK® 2000 IG 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 SPECTRALOCK 2000 IG. This product is ideal for installations where a stain resistant colorfast grout is desired.

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.

Cautions
Consult SDS 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 PERMACOLOR® Grout^ to cure for 14 days at 70°F (21°C) prior to filling with water or exposing to steam. See TDS 192 and TDS 172 for more information on these applications.
- Keep out of reach of children.

4. TECHNICAL DATA

VOC/LEED Product Information

This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program for Chemical Emissions for Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

Applicable Standards

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

Physical Properties

Tensile Strength (28 Days)	510 psi (3.5 MPa)
Compressive Strength (28 Days)	4500 psi (31.0 MPa)
Flexural Strength (28 Days)	1250 psi (8.62 MPa)
Linear Shrinkage (7 Days)	0.0450 %
Water Absorption (28 Days)	4.25%

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^3 (0.061 in^3)	121–132 mm^3 (0.0074–0.0081 in^3)
28 Day Cure Flexural Strength	ISO 13007-4 4.1.3	Greater than 2.5 MPa (362 psi)	8.5–9.2 MPa (1226–1340 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)	0.09–0.14 g (0.0002–0.0003 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	45–60 min at 70°F (21°C)
Final Set	3 – 4 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. Note: when grouting in hot weather refer to TDS 176 Hot Weather Tiling and Grouting. Substrate temperature must be between 40°F (4°C) and 90°F (32°C). Apply grout release or sealer if necessary. Refer to TDS 400 Grout Guide for more information on grouting.

Mixing

Use approximately 2 – 2 1/4 quarts (1.9 L – 2.15 L) of clean potable water for 25 lbs (11.3 kg) of PERMACOLOR Grout. Do not use with 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 35 – 40 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 tile 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 PERMACOLOR Grout^, or any other cement-based 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**.

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

DS 230.13: LATICRETE® Product Warranty

A component of:

DS 230.05: LATICRETE 5 Year System Warranty (United States and Canada)

DS 230.10: LATICRETE 10 Year System Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)

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. Installation performance and durability may depend on properly maintaining products supplied by other manufacturers. Routine maintenance can be done with detergents and a sponge or mop. For tough or difficult to remove soil, a bleaching cleaner (e.g. Soft Scrub, Comet, Ajax, etc. or electric dish washing detergent) on a nylon scrubbing pad or a long handled stiff bristle brush can be used. Please note: Prior to using any cleaning material on a tile, etc. installation, test a discrete area or scrap piece of tile to ensure desired results. For additional information, please refer to the Grout Guide, TDS 400.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

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 230.05: LATICRETE 5 Year System Warranty (United States and Canada)

DS 230.10: LATICRETE 10 Year System Warranty (United States and Canada)

DS 230.15: LATICRETE 15 Year System Warranty for Steel or Wood Framed Exterior Facades (United States and Canada)

DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada)

DS 230.99: LATICRETE Lifetime System Warranty

DS 030.0: SPECTRALOCK® 2000 IG

DS 236.0: 9235 Waterproofing Membrane

DS 663.0: HYDRO BAN®

TDS 192: Installation of Ceramic Tile in Swimming Pools

TDS 176: Hot Weather Tiling and Grouting

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

LATICRETE International, Inc.
One LATICRETE Park North, Bethany, CT 06524-3423 USA • 1.800.243.4788 • +1.203.393.0010 • www.laticrete.com

©2014 LATICRETE International, Inc.
All trademarks shown are the intellectual properties of their respective owners.