1. PRODUCT NAME
PERMACOLOR® Select®

2. MANUFACTURER
LATICRETE International, Inc.
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Bethany, CT 06524-3423 USA
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3. PRODUCT DESCRIPTION
PERMACOLOR Select is an advanced high performance cement grout that offers the industry’s first dispensable dry pigment solution. PERMACOLOR Select is designed for virtually all types of residential and commercial installations and offers optimum performance on the most demanding exterior or interior applications. Easy to mix, grout and clean, PERMACOLOR Select is fast setting and is suitable for joints 1/16” to ½” (1.5mm – 12mm) wide on floors or walls.

Advantages
- Exceeds ANSI A118.7
- Does not require sealing – Equipped with STONETECH® Sealer Technology
- Vibrant consistent color – minimizes efflorescence
- Fiber-reinforced – crack & shrink resistant
- Fast setting – ready for foot traffic in as little as 3 hours
- GREENGUARD® certified – low VOC
- Equipped with Anti-Microbial protection
- LATICRETE® Lifetime Warranty available
- PERMACOLOR Color Kit – Available in all 40 colors (10 x carton) plus top competitor colors!

Packaging
- Base - 25 lbs (11.3 kg) bag
- Base - 12.5 lbs (5.6 kg) bag
- Color Packs - 10 x .5 lbs (2x100 g) 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 lbs (11.3 kg) & 12.5 lbs (5.6 kg) bags – one (1) year
- 0.5 lbs (220 g) color kit – five (5) 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® Select® 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, ISO 13007)
This product has a cradle-to-gate (with options) Product-Specific (Type III) Environmental Product Declaration. The PCR review, life cycle assessment and declaration were independently verified by UL Environment in accordance with ISO 14025, ISO 14040 and ISO 14044.

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (28 Days)</td>
<td>510 psi (3.5 MPa)</td>
</tr>
<tr>
<td>Compressive Strength (28 Days)</td>
<td>3500 psi (24.1 MPa)</td>
</tr>
<tr>
<td>Flexural Strength (28 Days)</td>
<td>1250 psi (8.62 MPa)</td>
</tr>
<tr>
<td>Linear Shrinkage (7 Days)</td>
<td>0.1%</td>
</tr>
<tr>
<td>Water Absorption (28 Days)</td>
<td>2.8%</td>
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</tbody>
</table>

Working Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life</td>
<td>45–60 min at 70°F (21°C)</td>
</tr>
<tr>
<td>Final Set</td>
<td>3 – 4 hrs</td>
</tr>
<tr>
<td>Heavy Foot Traffic</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

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 – 2.25 quarts (1.9 L – 2.1 L) of clean potable water for 2 PERMACOLOR Select Color Packs and 25 lbs (11.3 kg) of PERMACOLOR Select Grout Base. Do not use with 1776 Grout Enhancer or any other latex additive. Place water in a clean mixing container. Remove Color Packs from the cardboard container as well as the protective plastic sleeve. The internal bag is a water-dispersible pack – when using the 25 lbs. (11.3 kg) bag of PERMACOLOR Select, drop both color packs directly to water in clean mixing container. Mix with a drill mixer until pigment is dispersed evenly in container and the dispersible pack is no longer visible. Add PERMACOLOR Select Base. Mix with a slow speed drill mixer (300 rpm) for 1 minute. Wait for 5 minutes and remix with drill for 1 minute. If using the 12.5 lbs bag, drop only one color pack into 1 – 1.1 quarts (.8L – 1.0 L) of clean water.

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

For first cleaning wait approximately 35 – 40 minutes at 70°F (21°C). Wider joints or cooler temperatures may extend wait time. 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 72 hours at 70°F (21°C) prior to sealing PERMACOLOR Select, with a STONETECH® sealer.

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.

Data Sheets are subject to change without notice. For latest revision, visit www.laticrete.com.

DS-281.0-0817
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 cleaner (e.g. STONETECH® Stone & Tile Cleaner) 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, use STONETECH KLENZALL™ Cleaner (or a
bleaching cleaner) 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, stone, 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 and to TDS 113- Cement
Grout Care & Maintenance for more information.

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

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 (United States
               and Canada)
   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®