



LATICRETE® Permacolour Grout

DS-502.0-0913

Globally Proven
Construction Solutions



1. PRODUCT NAME

LATICRETE® Permacolour Grout

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

PERMACOLOUR Grout is a high performance, fast setting grout that provides a grout joint that is dense and hard. PERMACOLOUR Grout is colour consistent. Mix only with water. Its' unique blend of special cements & fine graded sands significantly minimises shrinkage and efflorescence, whilst its' rapid curing enables a higher early strength than is achieved with conventional cement based grouts.

Advantages

- Consistent colour
- Fast setting
- Mixes with water only
- Ideal for floors and wall joints from 1.5 to 12 mm
- Inhibits mould and mildew growth
- 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
- Component of LATICRETE® 25 Year Tile & Stone System Warranty (DS-025.0) and LATICRETE Lifetime Tile & Stone Warranty (DS-230.99)

Packaging

5.0 kg sealed sachets (X3 per outer case)

Shelf Life

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

5.0 kg sealed sachets – one (1) year

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 coloured grout joints.
- Job site conditions will affect the final colour of coloured 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 colour pigment during grouting. Prior to grouting, test for absorption of colour 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 PRO PREMIUM or SPECTRALOCK 2000 IG. This product is ideal for installations where a stain resistant colourfast 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 MSDS for more safety information.
- During cold weather, protect finished work from traffic until fully cured.
- Contains 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 PERMACOLOUR® 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

Physical properties:

| | |
|----------------------|------------------------|
| Tensile Strength | 3.5 N/mm ² |
| Compressive Strength | 31.0 N/mm ² |
| Flexural Strength | 8.1 N/mm ² |
| Linear Shrinkage | <0.05% |

Working Properties:

| | |
|---------------------------------|---------------------|
| Pot Life | 45 – 60 mins @ 21°C |
| Final Set | 3 – 4 hours |
| Takes heavy foot traffic after: | 6 hours |

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.

Performance test results:

| Test | EN13888 CG2WA spec'n | Results: |
|---|-------------------------|-----------------------------|
| 28 day abrasion resistance | < 1000 mm ³ | 121 – 132 mm ³ |
| 28 day flexural strength | >2.5 N/mm ² | 8.5 – 9.2 N/mm ² |
| Freeze Thaw flexural strength | >2.5 N/mm ² | 3.3 – 3.8 N/mm ² |
| 28 day compressive strength | >15 N/mm ² | 35 – 37 N/mm ² |
| Freeze Thaw Compressive strength | >15 N/mm ² | 30 – 31 N/mm ² |
| 28 Day Cure Shrinkage | < 3 mm / metre | 0.5 – 0.6 mm/m |
| 28 day cure – 30 mins water absorption | < 2 g | 0.09 – 0.14 g |
| 28 day cure – 240 mins water absorption | < 5 g | 0.54 – 0.70 g |

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 LATICRETE® Technical Data Sheet 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 LATICRETE TDS 400 "Grout Guide" for more information on grouting.

Mixing

Use approximately 1.0 l of clean potable water for every 5 kg bag of PERMACOLOUR Grout. 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 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 PERMACOLOUR 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 on-line Distributor Information, call 0151 486 6101 or visit LATICRETE UK at www.laticrete.co.uk

7. 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. Routine maintenance can be done with detergents and a sponge or mop. For tough or difficult to remove soil, 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, etc. installation, test a discrete area or scrap piece of tile to insure desired results. For additional information, please refer to the LATICRETE Grout Guide, TDS 400.

8. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE UK Technical Service Hotline:

Tel: 0151 486 6101

Fax: 0151 448 1982

e-mail: sales@laticrete.co.uk

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at www.laticrete.co.uk

9. DISCLAIMER

The information contained in this document is given in good faith and to the best of our knowledge is true and accurate. This information is subject to change without notice and it is the responsibility of the user to obtain up to date and current information. The use of this product is beyond our control and liability is assumed by the user when used incorrectly and not in accordance with LATICRETE guidelines.

The manufacturer is not responsible for any loss or damage arising from incorrect usage of this product.

The specifier or other party responsible for the project must ensure that the details in this data sheet are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification.

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