



PERMACOLOR® GROUT FS

PERMACOLOR Grout FS is a high-performance polymer modified grout used for narrow joints and fine finish. It provides a grout joint that is dense and hard. PERMACOLOR Grout FS is color consistent. Mix only with water.



ADVANTAGES

- Polymer modified
- Consistent color
- Mixes with water only
- Ideal for floors & walls (joint widths of 1.5 to 6mm)
- Equipped with anti-microbial technology.
- Improved stain resistance for a cement-based grout.
- Designed for highly delicate surfaces, such as high polish marble and soft glass surface.

MANUFACTURER

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USES

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

STANDARDS

EN 13888 (CG2WA)
ISO 13007



DCLD CERTIFIED



Packaging

- 5 kg pouch – 4 pouches per carton, 36 cartons per pallet
- 1 kg pouch - 10 pouches per carton, 68 cartons per pallet

Colors: Available in a wide range of LATICRETE® colors, please refer our Grout and Sealant color chart, contact your local LATICRETE sales representative for details.

Suitable Substrates,

- Concrete
- Tile over tile.
- Cement plaster
- Concrete masonry
- Cement mortar bed
- Brick
- Gypsum board
- Glass

Approximate Coverage: sqm/kg

Tile Size, mm	Joint Width			
L x W x D	1.5 mm	3 mm	4 mm	6 mm
20 x 20 x 4	0.95	0.48	0.36	0.24
50 x 50 x 4	2.38	1.19	0.89	0.60
100 x 100 x 7	-	1.36	1.02	0.68
150 x 150 x 6	-	2.38	1.79	1.19
200 x 200 x 8	-	2.38	1.79	1.19
300 x 300 x 20	-	1.43	1.07	0.71
600 x 600 x 10	-	5.71	4.29	2.86

Note: L= length , W= Width and D= thickness of tile.

Above coverage is intended as a guide based on theoretical calculation. It may vary depending upon application technique, tile dimension and wastage factor. Actual coverage shall be determined by mockup area based on site conditions.

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for 24 months if stored off the ground on pallet in warehouse condition at 0 - 40°C , below 65% relative humidity. High humidity will reduce the shelf life of bagged product.

Limitations

- Adhesives/mastics, mortars and grouts for ceramic tile, pavers brick and stone are not designed as replacements for waterproofing membranes. When a waterproof membrane is required, use a LATICRETE Waterproof Membrane.

- Resistant to mild alkaline household chemicals only for regular cleaning and spillages. For specific chemical resistance consult Laticrete Technical department for suitable grout recommendations.
- 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.
- Suitable for continuous service in the range of -30 °C to +80 °C, with tolerance to occasional hot water cleaning up to +90 °C after 14 days curing.
- Certain types of tiles 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. Test polished porcelain tiles for staining prior to use.
- Selecting Other Grouting Materials: LATICRETE has grouting materials designed for every use. For installations that require high strength and chemical resistance choose LATAPOXY 2000 IG or LATAPOXY® SP-100. 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. See TDS1011 for more details.

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 immersed applications or steam rooms allow PERMACOLOR Grout FS to cure for 14 days at 25°C before use of area. See TDS1006 for more information on these applications.
- Keep out of reach of children.

TECHNICAL DATA

Working Properties

Performance Table-1 - ANSI 118.7

Parameters	Specifications	Result
%Linear shrinkage, 28 d	<0.20	0.05 - 0.15
% Water Absorption, 28d	< 5	3.0 - 4.5
Compressive strength, psi	1 day: ≥ 500	1600 - 1900
	28 days: ≥ 3000	3500 - 4500
Flexural Strength, 28d, psi	≥ 1000	1050 - 1200
Tensile Strength, 28d, psi	≥ 500	580 - 880

Performance Table-2 - EN 13888/ISO 13007-3, CG2WA

Parameters	Test method	Specifications	Result
Abrasion resistance, mm ³	EN 12808-2/ISO 13007-4:4.4	≤ 1000	700 - 900
Flexural strength, dry condition, N/mm ²	EN 12808-3/ISO 13007-4:4.1.3	$\geq 2,5$	3.5 - 5.0
Flexural strength (freeze-thaw cycles), N/mm ²	EN 12808-3/ISO 13007-4:4.1.5	$\geq 2,5$	3.5 - 5.0
Compressive strength, dry condition, N/mm ²	EN 12808-3/ISO 13007-4:4.1.4	≥ 15	24 - 28
Compressive strength, (freeze-thaw cycles), N/mm ²	EN 12808-3/ISO 13007-4:4.1.5	≥ 15	24 - 28
Shrinkage, mm/m	EN 12808-4/ISO 13007-4:4.3	≤ 3	< 3
Water absorption after 30 min, g	EN 12808-5/ISO 13007-4:4.2	≤ 2	< 2
Water absorption after 240 min, g	EN 12808-5/ISO 13007-4:4.2	≤ 5	< 5

Physical Properties @ 25°C

Pot Life	45–60 min
Mixed density, g/cm ³	1.75 $\pm$ 0.1
Final Set	4 – 5 hours
Foot traffic	24 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.

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 4°C and 32°C. Apply grout release or sealer if necessary. Refer to TDS 400 Grout Guide for more information on grouting.

Mixing

- Use approximately 0.2 L – 0.21 L of clean potable water for per 1 kg of PERMACOLOR Grout FS.
- 1.0 L – 1.05 L of clean potable water for per 5 kg of PERMACOLOR Grout FS.

Do not use with 1776 Grout Admix Plus 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 to 2 minutes. 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 25°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 25°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 48 hours at 25°C prior to sealing PERMACOLOR® FS 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.

AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide. For distributor information, please contact us by email at: enquiry@laticrete.me or, visit www.laticrete.me

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants this product will not deteriorate under normal conditions and use, the warranty validity of one (1) year. The product subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our technical support for further information on the system warranty and extended warranty.

MAINTENANCE

LATICRETE® 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.

TECHNICAL SERVICES

Technical assistance

For information contact us by email at:

enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at: www.laticrete.me

Warning: The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.

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