

# 500 PREMIUM POLYMER-MODIFIED UNSANDED GROUT



## DESCRIPTION

Flextile 500 Polymer-Modified Unsanded grout is a premium Portland cement-based grout containing finely ground aggregates, colorfast pigments, and select polymer additives to provide superior flexural and compressive strengths. It cures to provide a dense, hard, wear-resistant joint, containing *Flexfresh*<sup>TM</sup> for mould and mildew resistance.

## BASIC USES

For grouting all types of ceramic wall tile, marble, glass mosaics or mosaic tile where joints width is 1.5 mm (1/16") to 3mm (1/8"). Recommended for interior applications only.

## FEATURES

- Ultra strong.
- Polymer additive provides colour richness and uniformity.
- Improved stain resistance.
- Easy to use - just mix with water and apply.
- Smooth, tight surface for easier maintenance.
- With *Flexfresh*<sup>TM</sup> Revolutionary technology that helps to inhibit the growth of mildew, fungus and other bacteria causing odours and stains in construction materials.

## LIMITATIONS

- Use only on surfaces which are maintained at a temperature above 10°C (50°F) and below 35°C (95°F) during application and for at least 72 hours after application.
- Do not use Flextile 500 Polymer-Modified Unsanded grout for exterior applications. Some ceramic tile may be stained by colored grouts.
- Do a test patch, or check with tile manufacturer to see if pre-sealing of tile is required.

## LEED Points Contribution

MR Credit 5, Regional Materials\*  
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants  
IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems  
*\*May be eligible*

## LEED Points

Up to 2 points  
  
1 point  
  
1 point

## TECHNICAL DATA at 23°C (73°F) and 50% humidity

Exceeds ANSI A118.6 & A118.7 requirements

Description	ANSI SPEC. MPa (psi)	TYPICAL RESULT MPa (psi)
<b>28 Day Shear Strength</b>		
Flexural Strength, 7 day	> 6.9 (1000)	6.9 to 8.3 (1000 to 1200)
Compressive Strength, 28 day	> 20.7 (3000)	20.7 to 24.2 (3000 to 3500)
Shrinkage, 7 day	< 0.2 %	< 0.2 %
Water absorption, 50% humidity to immersion	< 5.0 %	< 5.0 %
Water absorption, immersion to dry	< 7.0 %	< 7.0 %
<b>Typical Physical Properties</b>		
<b>Description</b>		
Pot Life	1 hr	
Initial Cure	12-24hrs	
Final Cure	28 days	
Cleanability:	With water before material dries	
VOCs	0 g/L	
Shelf Life:	1 year from production date when stored in dry, heated conditions	

Approximate Grout Coverage per 100ft<sup>2</sup> (9.3m<sup>2</sup>)

Tile Dimensions	JOINT SIZE	
	1/16" (1.5 mm) Lbs (Kgs)	1/8" (3 mm) Lbs (Kgs)
1" x 1" x 1/4" (25 x 25 x 6 mm)	20 (9.1)	40 (18.2)
2" x 2" x 1/4" (50 x 50 x 6 mm)	10 (4.5)	20 (9.1)
3" x 3" x 1/4" (75 x 75 x 6 mm)	6.5 (3)	12.9 (5.9)
4-1/4" x 4-1/4" x 1/4" (108 x 108 x 6 mm)	4.6 (2.1)	9 (4.1)
4" x 8" x 1/2" (100 x 200 x 12 mm)	7.2 (3.3)	14.3 (6.5)
6" x 6" x 1/4" (150 x 150 x 6 mm)	3.2 (1.5)	6.4 (2.9)
6" x 6" x 1/2" (150 x 150 x 12 mm)	6.4 (2.9)	12.7 (5.8)
8" x 8" x 3/8" (200 x 200 x 10 mm)	3.6 (1.6)	7.1 (3.2)
12" x 12" x 3/8" (300 x 300 x 10 mm)	2.4 (1.1)	4.7 (2.1)
16" x 16" x 3/8" (406 x 406 x 10 mm)	1.8 (0.8)	3.6 (1.6)
18" x 18" x 3/8" (457 x 457 x 10 mm)	1.7 (0.8)	3.3 (1.5)
20" x 20" x 3/8" (508 x 508 x 10 mm)	1.4 (0.6)	2.8 (1.3)
24" x 24" x 3/8" (610 x 610 x 10 mm)	1.2 (0.5)	2.4 (1.1)

For job specific installation systems, recommendations, project warranty information, or for assistance with installation specifications, please contact Flextile's technical department.

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## INSTALLATION

### PREPARATORY WORK

Ceramic tile surfaces must be clean and setting materials must be adequately cured prior to grouting. Remove spacers and rake out high ridges of setting material from tile joints prior to grouting to ensure uniform grout thickness. Tile joints must be clean and free of dirt, dust or other foreign matter prior to grouting. Do a test patch to see if pre-sealing of tile is required to avoid staining of the tile.

### APPLICATION

Add Flextile 500 Polymer-Modified Unsanded grout to cool, clean water and mix by hand, or preferably with a slow speed mixer (maximum 150-RPM). Let mixed material sit for 5-10 minutes, then re-mix without adding further water.

Mix with the following proportions:

Water	Flextile 500 Polymer-Modified Unsanded grout
800 mL (27 U.S.oz).	2.27 kg (5 lbs).
1.6 L (54 U.S. oz).	4.54 kg (10 lbs).
4 L (4.2 U.S. qts).	11.3 kg ( 25 lbs).

Do not use excess water for mixing, as this will negatively affect the final cure and appearance of the grout. Dampen surface of tile slightly with clean water before grouting to make spreading of grout easier. Spread grout with a hard rubber float, working diagonally to joints and using wrist action to fully pack the joints. Holding the float at 90° to the tile surface, use diagonal passes to remove excess grout from the surface. Finished grout joint should be flush with the edge of the square-edged tile, or tooled to the glazed edge of cushion-edged tile. Allow grout to sit until firm in the joints, approximately 20 to 30 minutes.

Use 2 buckets of clean water for cleaning, one for the initial cleaning, removing the excess grout, and the other for slight moistening of the grout sponge in final cleanup. Avoid leaving any excess water on the surface of grout joints during clean-up.

DO NOT use excess water for mixing or for cleanup as this can cause efflorescence, discoloration and soft/powdery joints. 1 to 2 hrs after application, buff the grouted surface with cheesecloth or a clean, dry cotton cloth when a haze is visible on the tile surface to remove any remaining surface water or grout residue.

## CURING AND GROUTING

Cure for a minimum of 24 to 72 hours prior to use, Protect from water exposure until thoroughly dry.

Sealing the grout is recommended but not mandatory. Follow the recommendations and instructions of the sealer manufacturer. To maintain a clean tile surface, use a neutral-pH cleaner for maintaining the floor, followed by a clean-water rinse. Do not use harsh chemicals to maintain the tile surface. Grout must be cured for at least 21 days prior to regular maintenance and cleaning.

## CAUTION

Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid extended contact with skin where possible and wash exposed skin areas promptly with water. If any cement or cement mixtures get into the eye, rinse immediately and repeatedly with water and get prompt medical attention. Keep out of reach of children.

## SAFETY

Refer to Flextile Material Safety Data Sheet for detailed health and safety information.

## AVAILABILITY AND COSTS

Flextile 500 Polymer-Modified Unsanded grout is available from Flextile Ltd. and its distributors in 11.3 kg (25lb), and 2.27kg (5lb) sizes. Cost: Data supplied upon request.

## WARRANTY

Flextile warrants that this product is of merchantable quality and is suitable for the purpose for which it is intended. Flextile's liability under this warranty shall be limited to replacement of its product found to be defective or, at its option, a refund of the purchase price.

## MAINTENANCE

No maintenance is required except where damages result from unforeseen circumstances. Repair procedures shall be directed by Flextile or its distributors.

## TECHNICAL SERVICES

Flextile maintains a well-equipped laboratory able to test its products in conjunction with the products with which they are used. Technical assistance for use of Flextile products is available upon request.

## RELATED REFERENCES

Current editions of TTMAC 09 30 00 & TCNA Ceramic Tile Installation Manuals.

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