

100 FLEX-EPOXY 100% SOLIDS EPOXY GROUT

BASIC USES

For grouting all types of ceramic tile, quarry tile, pavers, granite, slate, mosaics or brick where superior stain resistance, chemical resistance, and high strength and impact resistance is required. For joint widths of 3mm (1/8") to 15 mm (3/8").

LIMITATIONS

Use only on surfaces maintained at a temperature of 15°C (60°F) to 35°C (95°F) during application and while curing. Cured Flex-Epoxy 100 will resist dry temperatures up to 100°C (212°F), but should not be used in areas subject to excessive heat and moisture combined, such as steam rooms, etc. Not recommended for grouting light colored marble. Some types of tile with surface porosity may require sealing prior to grouting. Not recommended for exterior applications. Light colored epoxy grouts should not be used where exposed to Ultra Violet rays.

COMPOSITION AND MATERIALS

A 100% solids, two component water washable epoxy grout, consisting of two components; a hardening resin and a pre-mixed portion of epoxy resin, color pigments and graded aggregate.

TECHNICAL DATA

Exceeds ANSI A118.3 requirements

Typical Physical Properties

Pot Life	1-1.5 hours
Water Clean-up	1.5 hours (@22°C (75°F))
Initial Cure	24 hours
Final Cure	7 days
Tensile Strength	8.4 MPa (1220 psi)
Compressive Strength	60.0 MPa (8700 psi)
Thermal Shock	3.9 MPa (565 psi)
Shore D Hardness(24hr)	85
Linear Shrinkage	0%
Specific Gravity (paste)	1.40
Cleanability :	with water before material dries
Shelf Life:	1 year from production date when stored @ room temperature

FEATURES

- Superior stain resistance
- Easy to mix and apply
- Exceptional color consistency
- Ultra strong
- Easy cold water clean-up
- Anti-slump filler supplied for vertical applications

Coverage: Approximate coverage per 3.8 L (1 US Gal) unit (square feet / square meter) temperature. Chemical Resistance - see separate chart

TILE SIZE	JOINT SIZE		
	(1/8") 3mm	(1/4") 6 mm	(3/8") 10 mm
1 x 1 x 1/4" 25 x 25 x 6 mm	32 3		
2 x 2 x 1/4" 50 x 50 x 6 mm	60 5.5		
3 x 3 x 1/4" 75 x 75 x 6 mm	80 7.5		
4 1/4 x 4 1/4 x 1/4" 106 x 106 x 6 mm	115 10.5	58 5.5	38 3.5
6 x 6 x 1/4" 150 x 150 x 6 mm	160 15	80 7.5	53 5
8 x 8 x 3/8" 200 x 200 x 10 mm	140 13	70 6.5	47 4.5
10 x 10 x 3/8" 250 x 250 x 10 mm	170 15.5	85 8	57 5.5
12 x 12 x 3/8" 300 x 300 x 10 mm	173 16	86 8	58 5.5
12 x 12 x 1/2" 300 x 300 x 12 mm	160 15	80 7.5	53 5
13 x 13 x 3/8" 330 x 330 x 10 mm	150 14	75 7	50 5
16 x 16 x 3/8" 40.5 x 40.5 x 10 mm	280 26	140 13	93 8.5

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

Store Flex-Epoxy 100 at 20°C (68°F) for 12 hours prior to use. If the Flex-Epoxy is stiff or appears partially crystallized, heat unopened unit in hot tap water for approximately 20 minutes and then let material return to room temperature prior to use.

Mix Flex-Epoxy 100 by pouring all of Part B into Part A container. Mix using a slow speed mixer. Scrape bottom and sides of container to ensure Part B is thoroughly blended into all of Part A. For vertical applications, or for wider tile joints where epoxy grout may slump, mix in part or all of the extra silica sand provided to produce the desired working consistency. Wear rubber gloves and safety goggles. Avoid skin contact.

Using a solid, hard rubber float, force the mixed grout into tile joints working in a diagonal direction. Eliminate all gaps and voids and finish flush to the edge of square-edged tiles. Hold the float at 90° to the tile surface and use it to scrape excess epoxy grout from the face of the tiles. Within 1 hour after application of grout, clean the surface of the tile with cheesecloth or a cleaning pad and cool clean water. Rinse cleaning pad frequently to avoid the re-depositing residue on surface. Ensure that the tile surface is properly cleaned before any residue can cure. Do not allow wash water to run into un-grouted tile joints. Avoid leaving any excess water on the surface of grout joints during clean-up, as this can affect the epoxy grout's cure.

CURING AND PROTECTION

Floors may receive some light foot traffic after 24 hours, but should be protected from general traffic and routine cleaning operations for at least 72 hours, or until grout is hard and tack free. Protect from chemical exposure for 21 days.

CAUTION

Avoid skin contact. Wear rubber gloves and protective clothing. Wash hands frequently with soap and water and before breaks or eating. Remove and wash contaminated clothing. Keep out of reach of children.

SAFETY

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

AVAILABILITY AND COSTS

Flex-Epoxy 100 - 100% Solids Epoxy Grout is available from Flextile Ltd. and its distributors in 3.8 liter (1 US gallon) containers. Each container consists of; Part A epoxy resin/aggregate mixture, Part B hardener, and a separate portion of graded silica sand for use on vertical applications.

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: Ceramic Tile Installation Manual (09300) from the TTMAC & TCA Ceramic Tile Installation Handbook

FLEXITILE PRODUCTS COMPLY WITH THE BUY AMERICA PROGRAM AS OUTLINED BY THE UNITED STATES GOVERNMENT, INCLUDING WHEN FEDERAL FUNDS ARE USED.

100 FLEX-EPOXY 100% SOLIDS EPOXY MORTAR & GROUT

CHEMICAL RESISTANCE CHART

CHEMICAL	PROLONGED EXPOSURE	INTERMITTENT EXPOSURE	NOT RECOMMENDED
5% Acetic Acid		✓	
10% Acetic			✓
Ammonium Hydroxide	✓		
30% Ammonium Chloride	✓		
40% Ammonium Nitrate	✓		
40% Ammonium Sulfate	✓		
Sodium Hypochlorate- 6.5% act C1	✓		
Boric Acid	✓		
Butyl Alcohol		✓	
Calcium Chloride	✓		
Caustic Soda-50%	✓		
Caustic Potash-50%	✓		
10% Citric Acid		✓	
Diesel Fuel	✓		
Formaldehyde		✓	
10% Formic Acid		✓	
Glycerol	✓		
10% Hydrochloric Acid	✓		
30% Hydrogen Peroxide	✓		
Iron Chloride	✓		
Isopropyl Alcohol	✓		
Gasoline	✓		
Methylene Chloride			✓
Mineral Spirits	✓		
10% Nitric Acid		✓	
Olive Oil	✓		
10% Oxalic Acid	✓		
Perchloroethylene		✓	
50% Phosphoric Acid	✓		
Sodium Chloride	✓		
50% Sodium Hydroxide	✓		
10% Sulfuric Acid	✓		
96% Sulfuric Acid			✓
10% Tannic Acid	✓		
Toluene			✓
Trichlorethane			✓
Turpentine	✓		
Xylene			✓