

100 FLEX-EPOXY 100% SOLIDS EPOXY MORTAR

BASIC USES

For setting most types of ceramic floor tile, porcelain tile, quarry tile, and resistant floor bricks and pavers where chemical resistance and high strength and impact resistance is required. For setting green marble, agglomerates, or other natural stones that are susceptible to warping and distortion when set with conventional Portland cement mortars.

LIMITATIONS

Use only on surfaces maintained at a temperature of 15°C (60°F) to 35°C (95°F) during application and while curing. Do not use in areas subject to excessive heat. Cured Flex-Epoxy 100 will resist temperatures up to 100°C (212°F). For exterior applications, consult Flexile Technical Service. Not recommended for use over particleboard, chipboard, asbestos cement board, or similar unstable materials.

COMPOSITION AND MATERIALS

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

FEATURES

- Superior bond and compressive strengths
- Easy to mix and apply
- Withstands steam cleaning
- Ultra strong
- Easy cold water clean-up
- Will not distort green marble or similar unstable natural stones

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 in dry, heated conditions

Approximate coverage per 7.6 Liter (2 U.S.Gallon) unit:

5 mm (3/16"V-notch trowel: 7.4 m² (80 ft²))

6 mm (1/4" notch trowel: 3.4 m² (36 ft²))

* Coverages given are for estimating purposes only. Actual coverages may vary depending on job site conditions and installation techniques used.

Chemical Resistance - see separate chart

INSTALLATION**PREPARATORY WORK**

Surfaces must be sound, even, fully cured and free of grease, oil, dirt, curing compounds, paint or other foreign matter. Surfaces must be true to a tolerance of ± 3 mm (1/8") in 2.4 meters (8 ft.) for walls and 6mm (1/4") in 3 meters (10 ft.) for floors. Concrete surfaces should have a wood float or steel trowel with broom finish. Plywood floors should be designed for maximum deflection of 1/360 of span. This normally requires an overlay of 16 mm (5/8") exterior grade plywood over 25 mm (1") nominal boards or 16 mm (5/8") plywood when on joists 40 cm (16") O.C. Fasten overlay with screw type nails and glue where possible. Leave a 3 mm-6 mm (1/8"-1/4") gap between sheets of overlay and next to all vertical surfaces to allow for expansion. Refer to current editions of TTMAC 09 30 00 Tile Installation Manual, or TCNA Handbook For Ceramic Tile Installation for information regarding placement of expansion or control joints, or for further substrate acceptability information.

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 uses a slow speed mixer. Scrape bottom and sides of container to ensure Part B is thoroughly blended into all of Part A. For setting large format or heavier tiles, add clean silica sand (provided) to thicken as desired. Wear rubber gloves and safety goggles. Avoid skin contact. Spread a thin layer of Flex-Epoxy 100 with the flat side of the trowel to wet out the substrate; then reapply sufficient material to give 100% contact with the back of the tile. Set tiles immediately with a slight twisting motion and beat in to establish full contact. While setting material is fresh, align tile and clean any smudges from the face of the tile with a clean sponge or towel and water. Do not grout or permit traffic on tiled surface for at least 24 hours, and preferably 48 hours.

CURING AND GROUTING

Do not allow any traffic on grouted floor for at least 24 hours. Floor may receive light foot traffic after 24 hours, but should be protected from general traffic and routine cleaning operations for at least 72 hours. Grout using Flextile Polymer Modified Grout or Flextile FlexEpoxy100 100% Solids Epoxy Grout, or Flextile ColourMax Plus Pre-Mixed Urethane Grout.

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 Mortar is available from Flextile Ltd. and its distributors in 7.6 liter (2 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 heavier 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 the 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 Installation Manual (09 30 00) from the TTMAC, and TCNA Ceramic Tile Installation Manual.

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