

43

ACRYLIC LATEX THIN-SET MORTAR ADDITIVE

DESCRIPTION

Flextile 43 is a commercial Acrylic Latex-based Thin-Set Tile Mortar Additive for use with Flextile 51 Premium Floor & Wall Thin-Set Mortar or with Flextile 53 Floor Mix for use in installing most ceramic tile and stone on properly prepared interior or exterior surfaces.

BASIC USES

- Installation of porcelain, ceramic, mosaic, quarry and paver tile.
- Installation of most types of natural stone, marble, granite, slate and precast terrazzo tile.

RECOMMENDED SURFACES

- Vertical or horizontal surfaces of concrete, masonry, terrazzo, cement backer boards.
- Installation over cement mortars and leveling compounds.
- Existing surfaces of properly prepared tile, stone or cementitious terrazzo.
- Exterior grade plywood or gypsum board, in interior dry areas only.
- Existing surfaces of properly prepared non-cushion sheet vinyl flooring, VCT or cutback adhesive residue.*
- Flextile waterproofing, crack isolation or uncoupling, and sound reduction membranes.

* Check with Flextile Ltd. as to acceptability of specific surfaces

FEATURES

- High performance professional grade latex additive.
- Flextile 51 & 53 Dry Set Mortars mixed with Flextile 43 are rated as suitable for extra heavy service by ASTM C627-70 on concrete substrates.

LIMITATIONS

- Do not use mortars modified with Flextile 43 over particleboard, Masonite, chipboard, OSB or similar unstable materials.
- Do not use over cushioned resilient flooring, rubber, plastic, paint, asphalt, or plywood surfaces in wet areas.
- Do not use over single layer plywood floors. 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.
- On exterior applications, protect from rain until thoroughly dried and protect from freezing for at least 14 days after installation.
- To use directly over gypsum-based patching or leveling substrates, apply suitable primer before use.
- When installing light-colored stones and translucent marble use Flextile 51 white with Flextile 43.
- Installations over nonporous surfaces may require extended setting/curing times.
- Do not use for installation of green marble and similar moisture sensitive tile. Use Flextile 58XT or FlexEpoxy 100.

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)

Flextile Dry Set Mortars mixed with Flextile 43 crack isolation or uncoupling Latex Tile Mortar Additive
 Exceeds ANSI A118.4 and A118.11 specification requirements

Description	ANSI SPEC.	TYPICAL RESULT
28 Day Shear Strength	MPa (psi)	MPa (psi)
Glazed Wall Tile	> 2.07 (300)	3.11 to 4.14 (450 to 600)
Impervious Ceramic Tile (Porcelain) Mosaics	> 1.38 (200)	2.59 to 3.45 (375 to 500)
Quarry Tile	> 1.03 (150)	2.76 to 4.14 (400 to 600)
Quarry Tile / Plywood	> 1.03 (150)	1.38 to 1.79 (200 to 260)

TYPICAL PHYSICAL PROPERTIES of mortars mixed with Flextile 43:

Pot Life	2-3 hours
Open Time	20-30 minutes
Initial Cure	24-48 hours
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

Approx. coverage per 22.7 kg (50 lb) bag:

- 5 mm (3/16") notched trowel - 10.0 m² (105 ft²)
- 6 mm (1/4") notched trowel - 7.1 m² (77 ft²)
- 10 mm (3/8") notched trowel - 5.5 m² (60 ft²)

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



■ INSTALLATION

PREPARATORY WORK

Surfaces must be sound, even, dry and free of grease, oil, dirt, paint, curing compounds or sealers, 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 light broom finish. Roughen smooth concrete surfaces. Plywood floors should be designed for maximum deflection of L/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

Mix approximately 6 L. (1.5 US Gallons) of Flextile 43 Acrylic Latex -Set Mortar Additive with 22.7 kg (50 lb) of thin-set mortar. Mix powder into latex. Avoid use of high-speed mechanical mixers. High speed mixing entrains air, resulting in reduced strength. Allow mixed material to stand for 10 minutes and then re-mix without adding further liquid.

Spread a thin layer of mortar with the straight edge of the trowel to wet out the substrate; then re-apply sufficient material to be distributed with a suitable notched trowel that will leave enough mortar to give at least 95% contact with the back of the tile. Back buttering of tile is recommended for all exterior installations, for large-sized tiles, for high-lugged or grooved tiles, or for ungauged slate, etc. Comb that area which can be covered with tile before skinning of mortar occurs. Mortar should be troweled with notches running in straight lines, so as to achieve maximum coverage. Press or beat in tile to achieve a finished thickness of mortar of at least 3 mm (1/8"). Do not adjust tile after they have been set for more than 25 minutes.

■ CURING AND GROUTING

Protect from all traffic and delay grouting until cured at least 24 hours, and preferably 48 hours. On exterior or cold weather applications, or when a larger format or impervious tile is installed over an impervious membrane, extended curing is recommended to ensure that mortar is sufficiently cured prior to grouting. Do not allow heavy traffic for at least 5 days following installation, and do not allow heavy construction equipment such as scissor lifts, etc. for a minimum of 14 days following installation. Protection of installation with 13 mm (1/2") plywood sheets prior to allowing heavy construction equipment is recommended until installation is fully cured. Grout using Flextile Polymer Modified Grout, Flextile 1600UPG Ultra Performance Grout or Flextile FlexEpoxy100 - 100% Solids Epoxy Grout.

■ 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 Safety Data Sheet for detailed health and safety information.

■ AVAILABILITY

Flextile 43 Acrylic Latex Thin-Set Mortar Additive is available from Flextile Ltd. and its distributors in the following sizes:

4 L (1.06 U.S. Gallon)
8 L (2.1 U.S. Gallon)
20 L (5.3 US Gallon)
200 L (53 U.S. Gallon)
1000 L (265 U.S. Gallon)

■ 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.



Notice: The information herein is the best information we have relating to our products and the recommended uses of our products are based on tests believed to be reliable. Flextile warrants each of its products is of merchantable quality and suitable for the purpose for which it is intended BUT DOES NOT MAKE ANY OTHER WARRANTY, EXPRESSED OR IMPLIED. This Warranty may not be enlarged or extended by our sales representatives, written sales information or drawings. Liability of Flextile 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. All advice given and structural specifications supplied by Flextile representatives shall be used at the sole risk of those receiving the same and Flextile assumes no responsibility for the design or construction of any works in which its products are used. Any review or inspection of plans, buildings or product applications by Flextile representatives is not to be construed as approval thereof by Flextile. This information supersedes all previous issues and is subject to change without notice.