



44

HIGH SOLIDS LATEX THIN-SET MORTAR ADDITIVE

DESCRIPTION

Flextile 44 is a High Solids Thin-Set 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. The high latex solids content of Flextile 44 High Solids Thin-Set Mortar Additive increases safety margins on exterior applications where thermal expansion / contraction of tiles is a concern, where extreme freeze / thaw conditions exist, in water immersion applications and in other critical situations.

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

- Interior or exterior floor and wall installations, exterior cladding and water immersion installations.
- 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 and sound reduction membranes.

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

FEATURES

- Extra high latex solids content for use in extreme conditions.
- Recommended for exterior cladding installations.
- Recommended for water immersion installations.
- Flextile 51 & 53 Dry Set Mortars mixed with 44 High Solids Thin-Set Mortar Additive are rated as suitable for extra heavy service by ASTM C627-70 on concrete substrates.

LIMITATIONS

- Do not use mortars modified with 44 High Solids Thin-Set Mortar Additive 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 44.
- Installations over nonporous surfaces may require extended setting/curing times.

- Some glass tile backings may not be suitable for use with Flextile 51/44 system consult the recommendations of the glass tile manufacturer.
- For translucent or transparent glass tile, use white Flextile 58XT.
- Do not use for installation of green marble and similar moisture sensitive tile. Use Flextile 58XT or FlexEpoxy 100.
- Consult local building code requirements for use on exterior commercial facades.

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 A118.4E, A118.11, ANSI A118.15E specifications when mixed with Flextile 51.

ISO 13007: Classification C2ES2P2

Description	ANSI Requirement	Typical Result
ANSI A118.15E - (extended open time)	> 0.52 MPa (75 psi) at 30 minutes	Pass
ANSI A118.15 Glazed Wall Tile	Shear Strength > 3.1 MPa (450 psi) at 7 days	Shear Strength 3.11 to 4.83 MPa (450 to 700psi)
Impervious Ceramic Tile (Porcelain)	> 2.76 MPa (400 psi) at 28 days	2.76 to 3.45 MPa (400 to 500 psi)
Quarry Tile	> 1.0 MPa (150 psi) at 28 days	3.45 to 5.52 MPa (500 to 800 psi)
ANSI A118.11 Quarry Tile/ Plywood	> 1.0 MPa (150 psi) at 28 days	1.73 to 2.42 MPa (250 to 350 psi) (wood failure)

Typical Physical Properties (of mortars mixed with Flextile 44):

Description	
Pot Life	2-3 hrs
Open Time	20-30 mins.
Initial Cure	24-48 hrs.
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:

5mm (3/16") notched trowel - 10.0 M² (105 ft²)

6mm (1/4") notched trowel - 7.1 M² (77 ft²)

10mm (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.

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

Toronto, ON – Email: mzerey@flextile.net

Toll Free 1-800-699-3623

Tel 1-416-255-1111

Fax 1-416-255-1729

Montreal, QC – Email: mzerey@flextile.net

Toll Free 1-800-699-3623

Tel 1-514-345-8666

Fax 1-514-345-8825

Burnaby, BC – Email: miboldt@flextile.net

Toll Free 1-888-236-4486

Tel 1-604-420-4914

Fax 1-604-420-0936

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 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

Mix approximately 6.5 L. (1.7 US Gallons) of Flextile 44 High Solids Thin-Set Mortar Additive with 22.7 kg (50 lbs) 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 an 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 protect installation with 13 mm (1/2") plywood sheets prior to allowing

construction equipment such as scissor lifts, etc. for a minimum of 7 days. Grout using Flextile Polymer Modified Grout, Flextile Premium Rapid-Set Polymer-Modified Sanded Grout, Flextile Flex-Epoxy 100 100% Solids Epoxy Grout, or Flextile ColourMax Plus Pre-Mixed Urethane Grout.

SAFETY

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

AVAILABILITY AND COSTS

Flextile 44 High Solids Thin-Set Mortar Additive is available from Flextile Ltd. and its distributors in the following sizes:

3.8 L (1 U.S. Gallon)

7.6 L (2 U.S. Gallon)

20 L (5.3 U.S. Gallon)

200 L (53 U.S. Gallon)

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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