

54 WALL MIX THIN-SET MORTAR

BASIC USES

For installation of mosaic tile, marble, absorptive or non-vitreous tile on vertical surfaces of concrete, concrete block, masonry, brick and, in dry interior areas only, gypsum wallboard. For exterior installations, for setting porcelain tiles, or for installation of tile over exterior grade plywood surfaces (dry interior areas only), mix with Flextile 43 Thin-Set Mortar Additive or Flextile 44 High Solids Thin-Set Mortar Additive.

LIMITATIONS

Do not use over particleboard, Masonite, chipboard, OSB or similar unstable materials. Do not use over rubber, plastic, paint, asphalt, or plywood surfaces in wet areas. Use only on surfaces, which are maintained at a temperature above 10°C (50°F) and below 35°C (100°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.

COMPOSITION AND MATERIALS

A dry-set mortar consisting of a blend of Portland Cement, mineral fillers and water retentive additives packaged in dry powder form to be mixed with water or latex mortar additive just prior to use. Cures to provide good bond strength with minimal shrinkage. Available in Grey & White.

FEATURES

- Higher concentration of water retentive additives for use with absorptive tiles
- Finer texture for use with mosaic tile or other thin wall tile
- Excellent slip resistance on vertical applications
- High cement content
- Excellent workability
- Non-Flammable
- Water resistant when cured

TECHNICAL DATA

Meets or exceeds ANSI A118.1 requirements

Typical Physical Properties

Pot Life	4 hours
Open Time	20 minutes
Initial Cure	24-48 hours
Final Cure	28 days

Shear Strength (ANSI A118.1)

Non-Vitreous Tile	2.4 MPa (350 psi)
Vitreous Tile	1.4 MPa (200 psi)
Compressive Strength	20.7 MPa (3000 psi)
Linear Shrinkage	< 0.25 %
Specific Gravity (dry)	1.63
Specific Gravity (wet)	1.54
pH (paste)	approx. 12
Cleanability :	with water before material dries
Shelf Life:	1 year from production date when stored in dry, heated conditions

Approx. coverage per 50 lb bag:

5mm (3/16") notched trowel	-10.0 M ² (105 ft ²)
6mm (1/4") notched trowel	-7.1 M ² (77 ft ²)
10mm (3/8") notched trowel	-5.5 M ² (60 ft ²)

** 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.

Wall surfaces must be true to a tolerance of ± 3 mm (1/8") in 2.4 meters (8 ft.). New concrete should have a wood float or steel trowel with broom finish. Roughen smooth concrete surfaces. Refer to current editions of TTMAC 09300 Tile Installation Manual, or TCA Handbook For Ceramic Tile Installation for information regarding placement of expansion or control joints, or for further substrate acceptability information.

APPLICATION

Mix Flextile 54 Wall Mix by adding dry powder to approximately 6 Liters (1.6 U.S. gallons) of cool, clean water or Flextile 43 Thin-Set Mortar Additive, or Flextile 44 High Solids Thin-Set Mortar Additive. Avoid using high-speed mixers. Allow mixed mortar to slake for at least 10 minutes, then re-mix without adding further liquid. Resulting mortar should be of a thick, easily spreadable consistency. Spread a thin layer of mixed mortar with flat side of trowel to wet out the substrate; then re-apply sufficient material with a suitable notched trowel that will leave enough mortar to give at least 95% coverage to the backs of tile. Back buttering of tile is recommended for high lugged tile, ungauged slate, stone, etc. and for all exterior applications. Comb that area which can be covered with tile before skinning 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 3mm (1/8"). Bed tile carefully over gypsum board to avoid excess deflection in the base. Do not adjust tiles 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, extended curing is recommended to ensure that mortar is sufficiently cured prior to grouting. Grout using Flextile Polymer Modified Grout or Flextile Flex-Epoxy 100 - 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 Material Safety Data Sheet for detailed health and safety information.

AVAILABILITY AND COSTS

Flextile 54 Wall Mix Mortar is available from Flextile Ltd. and its distributors in 22.7-kg (50-lb), bags.

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.