

61 POLYMER-MODIFIED, FULL COVERAGE MORTAR

DESCRIPTION

Flextile 61 is a premium-grade, polymer-modified, full-coverage, thin or medium-bed mortar.

Unique, high polymer modification provides the superior bonding characteristics and exceptional flexibility required for installation of tile and stone over difficult to bond surfaces such as exterior grade plywood, vinyl and laminates.

BASIC USES

- Installation of large format porcelain, ceramic, mosaic, quarry and paver tile tiles without the need for backbuttering.
- Installation of natural stone, marble, granite, slate and precast terrazzo tile.

RECOMMENDED SURFACES

- Installation over 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
- For surface areas requiring early traffic refer to Flextile 62 rapid setting, full coverage mortar.

FEATURES

- Excellent flexibility and bond strength
- Easy to use - just mix with water and apply
- Eliminates the need to backbutter large format or heavily lugged tile in order to achieve required coverage to backs of tile.
- Saves both time and money.
- Excellent bond strengths to all types of tile and natural stone.
- Supports large format tile, reducing lippage.
- Excellent workability

LIMITATIONS

- Do not use 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 (100°F) during application and for at least 72 hours after application.
- When installing light-colored stones and translucent marble use Flextile 61 White.
- Not recommended for installations subject to water immersion or prolonged water exposure, or for freeze/thaw applications.

TECHNICAL DATA

Meets or exceeds ANSI A118.4 and A118.11 requirements

Typical Physical Properties

Pot Life	2–3 hours
Open Time	30–40 minutes
Initial Cure	24 hours
Final Cure	28 days

Shear Strength (ANSI A118.4)

Non-Vitreous Tile	2.2 MPa (320 psi)
Vitreous Tile	2.0 MPa (290 psi)
Porcelain Tile	1.6 MPa (240 psi)
Tile to Plywood	1.8 MPa (260 psi) (wood failure)
Compressive Strength	20.7 MPa (3000 psi)
Linear Shrinkage	< 0.25 %
Specific Gravity (dry)	1.64
Specific Gravity (wet)	1.85
pH (paste)	approx. 10.80
Cleanability :	with water before material dries
Shelf Life:	1 year from production date when stored in dry, heated conditions

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

6 mm x 10 mm (1/4" x 3/8")	square-notch trowel - 5.5 M ² (60 ft ²)
10mm x 10 mm (3/8" x 3/8")	square-notch trowel - 4.1 M ² (45 ft ²)
19 mm x 14 mm (3/4" x 9/16")	round-notch trowel - 2.8 M ² (30 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. Surfaces must be true to a tolerance of 3 mm (1/8") in 2.4 meters (8 ft.) for walls and 6 mm (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 09300 Tile Installation Manual, or TCA Handbook For Ceramic Tile Installation for information regarding placement of movement or expansion joints, or for further substrate acceptability information.

APPLICATION

Mix with approximately 4.7 liters (1.25 US gallons) of water per 22.7 kg (50 lb) bag. Avoid using high-speed mixers. Allow mixed mortar to slake for at least 10 minutes, then re-mix without adding further material or water. Spread a thin layer of mixed mortar with flat side of trowel to wet out the substrate; then reapply sufficient material with a suitably notched trowel that will leave enough mortar to give at least 90% coverage to the backs of tile. **It is imperative that an appropriate sized trowel is used in conjunction with larger format tile or stone, so that adequate coverage is achieved.** Comb that area which can be covered with tile before skinning occurs. Mortar should be troweled with notches running in straight, parallel lines. Press or beat in tile while moving slightly in the opposite direction of troweled mortar ridges, to achieve maximum coverage. Do not adjust tiles after they have been set for more than 15 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 or Flextile FlexEpoxy100 100% Solids Epoxy Grout, or Flextile ColourMax Pre-Mixed Urethane 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 61 P.M. Full Coverage 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, and TCA Ceramic Tile Installation Handbook.