



# 61 PREMIUM GRADE, 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.
- Flextile waterproofing, crack-isolation and sound reduction membranes.

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

## FEATURES

- Excellent flexibility and bond strength.
- Easy to use - just mix with water and apply.
- Reduces 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.
- Rated as a light performance commercial and residential mortar by ASTM C627-70 on plywood substrates.
- Rated as suitable for extra heavy service by ASTM C627-70 on concrete substrates.

## LIMITATIONS

- Installations over nonporous surfaces may require extended setting/curing times.
- 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.

- To use directly over gypsum-based patching or leveling substrates, apply suitable primer before use.
- 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.
- 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.
- Do not use for moisture-sensitive stone such as green marble, certain limestone and granite, agglomerate tiles, cultured marble or resin-backed tiles. Instead, use Flexepoxy 100 mortar.
- For installations subject to severe freeze/thaw conditions use Flextile two component systems.

## TECHNICAL DATA at 23°C (73°F) and 50% humidity

Exceeds ANSI A118.4 and A118.11 specification requirements

Description	ANSI SPEC. MPa (psi)	TYPICAL RESULT MPa (psi)
<b>28 Day Shear Strength</b>		
Glazed Wall Tile	> 2.07 (300)	2.93 to 4.14 (425 to 600)
Impervious Ceramic Tile (Porcelain) Mosaics	> 1.38 (200)	2.24 to 3.11 (325 to 450)
Quarry Tile	> 1.03 (150)	2.42 to 3.45 (350 to 500)
Quarry Tile / Plywood	> 1.03 (150)	1.38 to 1.79 (200 to 260)

## Typical Physical Properties

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:

- 6 mm x 10 mm (1/4" x 3/8") - square-notch trowel - 5.5 M<sup>2</sup> (60 ft<sup>2</sup>)
- 10mm x 10 mm (3/8" x 3/8") - square-notch trowel - 4.1 M<sup>2</sup> (45 ft<sup>2</sup>)
- 19 mm x 14 mm (3/4" x 9/16") - round-notch trowel - 2.8 M<sup>2</sup> (30 ft<sup>2</sup>)

\* 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.

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**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

**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 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 95% 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. It may be necessary to back-butter in order to reach these requirements. (Refer to ANSI A108.5 specifications and TCNA Handbook guidelines). 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 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 or Flextile FlexEpoxy100 100% Solids Epoxy Grout, or Flextile ColourMax Plus 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 Premium Grade, Polymer-Modified, 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 TTMAC 09 30 00 & TCNA Ceramic Tile Installation Manuals.

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