

# 66 FLEXLITE PREMIUM WALL AND FLOOR LIGHTWEIGHT MORTAR



## DESCRIPTION

Flexlite 66 is a premium-grade, non-sag lightweight mortar, for thin or medium-bed, wall, floor and ceiling installations. Unique, high polymer modification provides the superior bonding characteristics and exceptional flexibility required for installation of tile and stone over difficult to bond surfaces.

Flexlite 66 has Flexlite technology providing ease of installation and twice the coverage than traditional mortars as well as LEED point contribution due to over 20% recycled content.

## BASIC USES

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

## RECOMMENDED SURFACES

- Interior or exterior floor, wall and ceiling 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.

\*For commercial exterior wall and ceiling installations use Flextile 51 / 44 or Flextile 58XT systems.

## FEATURES

- Excellent for non-sag, thin or medium bed installations of large dimension, heavy textured tile and stone on both vertical or horizontal surfaces.
- Flexlite 66 formulated with Flexlite Technology promoting ease of troweling.
- 11.3 kg (25LB) bag covers the same area as a 22.7 kg (50 lb) bag of traditional mortar.
- High flexibility and bond strength.
- Light color mortar: for light-colored natural stone, translucent marble and grout installations.
- For interior and exterior floor, wall and ceiling installations.
- Formulated with recycled material, contributes to LEED certification.
- With *Flexfresh*<sup>TM</sup> Revolutionary technology that helps to inhibit the growth of mildew, fungus and other bacteria causing odours and stains in construction materials.

## 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 directly over gypsum-based leveling compounds.
- 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. Protect from freezing and complete water immersion for at least 7 days after installation. Seal partially used bags completely when not in use.
- Exterior wall applications limited to two-storey installations, for higher facades use Flextile 51 with Flextile 44 additive. Consult Flextile's Technical Department. Use mechanical fasteners in installations of tiles larger than 720 sq. in (0.46 M<sup>2</sup>) or weighing more than 15lbs (0.46m M<sup>2</sup>) per sq. ft. (0.09 M<sup>2</sup>). Check with local building codes with respect to height restrictions without mechanical fasteners.
- Do not use for installation of green marble and similar moisture sensitive tile. Use Flextile 58XT or FlexEpoxy 100. Installations over nonporous surfaces may require extended setting/curing times.
- Do not use for complete water immersion installations such as swimming pools, steam rooms, spas. Use Flextile 51 with Flextile 44 additive or Flextile 58XT.
- 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)	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)	1.21 to 1.90 (175 to 275)

## Typical Physical Properties

Description	
Pot Life	2-3 hrs
Open Time	20-30 mins.
Adjustability 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 11.3 kg (25 lb) bag:

5mm (3/16") notched trowel - 10.0 M<sup>2</sup> (105 ft<sup>2</sup>)

6mm (1/4") notched trowel - 7.1 M<sup>2</sup> (77 ft<sup>2</sup>)

10mm (3/8") notched trowel - 5.5 M<sup>2</sup> (60 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 4, Recycled Content	LEED Points Up to 2 points
MR Credit 5, Regional Materials*	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants	1 point
IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems	1 point

\*May be eligible

#### 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 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 3mm-6mm (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 5 liters (1.3 US gallons) of water per 11.3 kg (25 lb) bag. Avoid using high-speed mixers. Allow mixed mortar to slake for at least 10 minutes, then re-mix without adding further water. Spread a thin layer of mixed mortar with flat side of trowel to wet out the substrate; then reapply 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 porcelain tile, large format or 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"). 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 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

Flexlite 66 Premium Wall and Floor Lightweight Mortar is available from Flextile Ltd. and its distributors in 11.3 kg (25 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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