58 FAST-SET POLYMER-MODIFIED MORTAR

DESCRIPTION

Flextile 58 is a premium-grade, fast-set, superior high-performance, one-component, polymer-modified thin-set 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.

INDUSTRY STANDARDS

Meets or Exceeds ANSI A118.4 and A118.11 specification requirements.

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 floor and wall 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.

**For exterior installations refer to Flextile 58XT two-component, fast-setting system.*

FEATURES

- Fast curing - tile can be grouted within 2-4 hours: ideal for supermarkets, factories, hospitals, airports, shopping malls, etc.
- Excellent adhesion to porcelain tile and difficult to bond substrates.
- Excellent flexibility and bond strength.
- Excellent workability.
- Easy to use - just mix with water and apply.
- Water resistant when cured.
- Rated as a light performance commercial and residential mortar by ASTM C627-70 on plywood substrates.

LIMITATIONS

- Do not use for exterior or water immersion applications.
- 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.
- Protect from moisture until thoroughly dried and protect from freezing for at least 14 days after installation.
- When installing light-colored stones and translucent marble use Flextile 62 or 58XT White.
- Do not use for moisture-sensitive stone such as green marble, certain limestone and granite, agglomerate tiles, cultured marble or resin-backed tiles.
- For installations subject to severe freeze/thaw conditions use Flextile two component systems.

LEED Points Contribution

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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*

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

Description	ANSI Spec.	Typical Result
4 Hours Shear Strength	MPa (psi)	MPa (psi)
Quarry Tile/Plywood	>0.34 (50)	0.69 to 1.38 (100 – 200)
7 Day Shear Strength	MPa (psi)	MPa (psi)
Glazed Wall Tile	>2.07 (300)	3.11 to 4.14 (450 to 600)
28 Day Shear Strength	MPa (psi)	MPa (psi)
Porcelain Mosaics Tile	> 1.38 (200)	2.59 to 3.45 (375 to 500)
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

Pot Life	30 minutes
Open Time	20 minutes
Initial Cure	approx. 60 minutes
Final Cure	28 days
Cleanability	With water before material dries
VOCs	0 g/L
Shelf Life	6 months from production date when stored in dry, heated conditions

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

5 mm (3/16") notched trowel - 10.0 m² (105 ft²)
6 mm (1/4") notched trowel - 7.1 m² (77 ft²)
10 mm (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.*

INSTALLATION

PREPARATORY WORK

Surfaces must be sound, even, dry and free of grease, oil, dirt, paint, curing com- pounds 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 broom finish, to a minimum CSP (Concrete Surface Profile) of 2 - 3. Roughen smooth concrete surfaces using mechanical abrasion such as grinding or shot/sand blasting or prime using Flextile 4050 FlexSil Primer. Plywood floors should be designed for maximum deflection of L/360 of span. This normally requires an over- lay of 16 mm (5/8") exterior grade plywood, or Flextile FlexMat Uncoupling Membrane 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 be- tween 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 movement or expansion joints, or for further substrate acceptability information. Per TTMAC and TCNA, floor systems, including the framing system and subfloor panels, over which the tile will be installed shall be in conformance with the Canadian National Building Code 2020, the International Residential Codes for residential applications, the International Building Codes for commercial applications, or applicable local building codes taking into consideration anticipated live and dead loads.

APPLICATION

Mix with approximately 5.2 – 5.5 liters (1.38 – 1.45 US gallons) of cool, clean water per22.7 kg (50 lb) bag. During warmer temperatures, use colder, or ice water to extend working time. Avoid using high-speed mixers. DO NOT SLAKE – pot life is approximately 30 minutes – apply immediately. Do not spread more material than can be covered with tiles within 10 minutes. 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 85% (Interior applications) or 95% (Large Format Tile applications) coverage to the backs of tile. It may be necessary to back-butter tiles in order to reach these requirements. (Refer to ANSI A108.5 specifications, and current TTMAC & TNCA guidelines regarding proper Flat Back-Troweling & Notch Back-Troweling methods for achieving proper bond coat transfer & coverage.) It is imperative that an appropriately 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 as shown 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 2-4 hours. On applications where job site temperatures are below room temperature, 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. Grout using 1600 Ultra Performance Grout or Flextile Polymer Modified Grout or Flextile FlexEpoxy 100 - 100% Solid 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 mixture gets into the eye, rinse immediately and repeatedly with water and get prompt medical attention. Keep out of reach of children.

SAFETY

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

AVAILABILITY

Flextile 58 Versatile FAST-Set Mortar is available from Flextile Ltd. and its distributors in 11.3 kg (25 lb) and 22.7 kg (50 lb) bags.

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 Installation Manual (09 30 00) from the TTMAC, and TCNA Ceramic Tile Installation Manual.

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