

58XT

FAST-SET TWO – COMPONENT MORTAR SYSTEM

DESCRIPTION

Flextile 58XT is a superior high-performance two-component, fast-setting latex/hydraulic mortar system. It provides the rapid hydration and superior bonding and flexibility characteristics required for installation of tile and stone on interior and exterior applications subject to early traffic, or extra stresses associated with water immersion and freeze/thaw conditions.

BASIC USES

- Installation of porcelain, ceramic, mosaic, quarry and paver tile.
- Installation of natural stone, natural and agglomerated marbles and granites, slate and precast terrazzo tile.
- For installing white, light colored or translucent marble, use WHITE Flextile 58XT.

RECOMMENDED SURFACES

- Interior or exterior 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*.
 - Flextile waterproofing, crack-isolation and sound reduction membranes.
- * Check with Flextile Ltd. as to acceptability of specific surfaces

FEATURES

- High performance system provides superior bond strengths and greater movement capability. Provides added resistance to impact, vibration, freeze/thaw stresses.
- For interior and exterior floor, wall and ceiling installations.
- Recommended for water immersion installations.
- Fast curing - Tile can be grouted within 2-4 hours, and tiled areas quickly ready for use.
- Allows medium bed installations of large dimension, heavy textured tile and stone.
- Excellent adhesion to all types of tile and stone.
- Excellent adhesion to properly prepared exterior grade plywood surfaces.
- Rated as suitable for extra heavy service by ASTM C627-70 on concrete substrates.

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 (95°F) during application and for at least 72 hours after application.
- Protect from moisture until thoroughly dried and protect from freezing for at least 7 days after installation.

- When installing light-colored stones and translucent marble use Flextile 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. Instead, use Flexepoxy 100 mortar.

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

Exceeds ANSI A118.4F, A118.11, ANSI A118.15F specifications
 ISO 13007: Classification C2FS2P2

Description	ANSI Requirement	Typical Result
ANSI A118.15F - Shear Strength Impervious Ceramic Tile (Porcelain)	> 0.34 MPa (50 psi) at 4 hours	Pass
ANSI A118.15 Glazed Wall Tile	Shear Strength > 3.1 MPa (450 psi) at 7 days	Shear Strength 3.11 to 4.83 MPa (450 to 700psi)
Impervious Ceramic Tile (Porcelain)	> 2.76 MPa (400 psi) at 28 days	3.11 to 4.49 MPa (450 to 650psi)
Quarry Tile	> 1.0 MPa (150 psi) at 28 days	2.76 to 3.45 MPa (400 to 500 psi)
ANSI A118.11 Quarry Tile/ Plywood	> 1.0 MPa (150 psi) at 28 days	1.38 to 2.07 MPa (200 to 300 psi) (wood failure)

Typical Physical Properties (mixed components)

Pot Life	30 – 40 minutes
Open Time	15 – 25 minutes
Initial Set (prior to grouting)	2 – 4 hours
Open to light traffic Approx. after	3 – 4 hours
Final Set (prior to heavy traffic)	24 hours
Colour	Available in Grey or White
Cleanability	with water before material dries
VOCs	0 g/L
Shelf Life 58XT Powder	6 months from production date
Additive	12 months from production date (when stored in dry, heated conditions).

Approx. coverage per 22.7 kg (50lb.) mixed unit:

6 mm (1/4") notched trowel: 6.5 – 8.4 m² (70 – 90 ft²)
 10 mm (3/8") notched trowel: 4.6 – 6.5 m² (50 – 70 ft²)
 16 mm (3/4") notched trowel: 1.9 – 2.8 m² (20 – 30 ft²)

* Coverages given are for estimating purposes only. Actual coverages may vary depending on job site conditions and installation techniques used.



LEED Points Contribution

MR Credit 5, Regional Materials* Up to
IEQ Credit 4.1, Low-Emitting
Materials – Adhesives & Sealants
IEQ Credit 4.3, Low-Emitting
Materials – Flooring Systems

LEED Points

2 points
1 point
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, form release agents, 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 a light broom finish. Roughen smooth concrete surfaces. Plywood floors should be designed for maximum deflection of L/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

Pour approximately 6 L (1.6 US Gal) of the Flextile 58XT-A liquid into a clean container and slowly add the 22.7 kg (50 lb) of Flextile 58XT-P powder while mixing. Avoid using high-speed mixers. Mix to a smooth, homogeneous consistency. 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 suitable notched trowel that will leave enough mortar to give at least 95% coverage to the backs of tile. Backbuttering of tile is recommended for porcelain tile, large format or high lugged tile, ungauged slate, stone, etc., and for all exterior or water immersion 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 3 mm (1/8"). 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 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. Grout using 1600 Ultra Performance Grout or Flextile Polymer Modified Grout or Flextile FlexEpoxy100 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 Safety Data Sheet for detailed health and safety information.

AVAILABILITY

Flextile 58XT Two-Component Fast-Set Mortar System is available from Flextile Ltd. and its distributors in two components: Powder: 22.7 kg (50 lb) bags. Liquid Additive: 20 L (5.3 US Gal.) pails.

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.



Notice: The information herein is the best information we have relating to our products and the recommended uses of our products are based on tests believed to be reliable. Flextile warrants each of its products is of merchantable quality and suitable for the purpose for which it is intended BUT DOES NOT MAKE ANY OTHER WARRANTY, EXPRESSED OR IMPLIED. This Warranty may not be enlarged or extended by our sales representatives, written sales information or drawings. Liability of Flextile 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. All advice given and structural specifications supplied by Flextile representatives shall be used at the sole risk of those receiving the same and Flextile assumes no responsibility for the design or construction of any works in which its products are used. Any review or inspection of plans, buildings or product applications by Flextile representatives is not to be construed as approval thereof by Flextile. This information supersedes all previous issues and is subject to change without notice.