

# 58XT TWO – COMPONENT FAST-SET MORTAR SYSTEM

## BASIC USES

For both thin-bed and medium bed installations of marble, slate, granite, pre-cast terrazzo, porcelain tile, and most types of ceramic and stone tile on properly prepared substrates of concrete, masonry, cement terrazzo, concrete backer units, existing surfaces of ceramic or stone tiles. Recommended for exterior and water immersion installations, and for use over Flextile WP980 Waterproof & Crack Isolation Membrane and other Flextile Surface Preparation products. May also be used for interior installations on Exterior Grade Plywood Floors and over existing surfaces of well-bonded VCT/VAT or other non-cushion vinyl flooring, and cutback adhesive residue (dry areas only).

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

## 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 5°C (40°F) and below 35°C (100°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.

## COMPOSITION AND MATERIALS

A two-component, fast-setting, fast-curing hydraulic mortar for both exterior and interior installation of ceramic tile, marble and granite. Mixed with a premium high solids acrylic latex additive component, this high performance system provides superior bonding and movement capabilities, and physical properties such as impact, vibration, aging, freeze/thaw, and cleaning chemicals resistance.

## FEATURES

- 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
- Saves both time and money
- Excellent adhesion to all types of tile and stone
- Excellent adhesion to plywood
- Non-Flammable
- Rated as suitable for extra heavy service by ASTM C627-70 on concrete substrates

## TECHNICAL DATA

Exceeds ANSI 118.4 and ANSI 118.11 requirements for fast-setting mortars.

### Typical Physical Properties (mixed components)

Pot Life	30 – 40 minutes
Open Time	15 – 25 minutes
Adjustability Time	Approx. 40 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

### Shear Strength – ANSI A118.4 (mixed components)

Non-Vitreous Tile	4 hours	0.9 MPa (130psi)
	24 hours	1.52 MPa (220psi)
	7 days	4.1 MPa (600psi)
Porcelain Tile	24 hours	1.38 MPa (200psi)
	7 days	3.6 MPa (520psi)
Quarry Tile to Plywood*	1.8 MPa	(260 psi)
*Plywood failure		

Compressive Strength	24 hr	8.5 MPa (1233 psi)
	28 days	30.6 MPa (4447 psi)
Flexural Strength	28 days	9.6 MPa (1400 psi)
Linear Shrinkage		< 0.5%
Specific Gravity (dry)		1.43
Specific Gravity (wet)		1.60
pH (paste)		approx. 11
Cleanability		with water before material dries
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:

6mm (1/4") notched trowel:	6.5 – 8.4 M <sup>2</sup> ( 70-90 ft <sup>2</sup> )
10mm (3/8") notched trowel:	4.6 – 6.5 M <sup>2</sup> (50-70 ft <sup>2</sup> )
16mm (3/4") notched trowel:	1.9 – 2.8 M <sup>2</sup> ( 20 – 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.

## 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  $\pm 3$  mm (1/8") in 2.4 meters (8 ft.) for walls and 3mm (1/8") 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 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 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 (50lbs) 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 3mm (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. Use kneeling boards when grouting. On 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 Flex-Epoxy 100 - 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 Material Safety Data Sheet for detailed health and safety information.

## AVAILABILITY AND COSTS

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. 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 & TCA Ceramic Tile Installation Handbook.

**FLEX TILE PRODUCTS COMPLY WITH THE BUY AMERICA PROGRAM AS OUTLINED BY THE UNITED STATES GOVERNMENT, INCLUDING WHEN FEDERAL FUNDS ARE USED.**