



PRODUCT INFORMATION

floor mix
Thin-set mortar

FLOOR MIX is a builder grade, factory blend of portland cement, sand and special additives that produce an excellent dry-set mortar for floor tile installations of low absorption tiles (less than 7%).

TEXTURE:

Powder, consisting of portland cement and graded sand.

COLORS:

Gray or white.

PACKAGING:

50 lb (22.7 kg) bag.

BASIC USE:

> **FLOOR MIX** is used as a bond coat for setting non-absorptive and semi-vitreous ceramic tile for service in residential and commercial use.

> It is used in a mortar bed as thin as 3/32" after proper embedment.

AREA OF USE:

Suitable backings include properly prepared plumb and true masonry, concrete (broom finished) and cured portland cement mortar beds. The addition of Latex Bond Admix 150 or Acrylic Admix 150 fs must be used with **FLOOR MIX** for glass mesh mortar units, brick, concrete block, unglazed ceramic tile, porcelain bodied tile, marble and all exterior applications. Any other substrate including waterproofing and antifracture membranes must be approved in writing by an officer of the manufacturer.

BENEFITS:

> It has excellent water and impact resistance. It is water cleanable, non-flammable, contains zero VOC's and requires no soaking of tiles.

> **FLOOR MIX** provides a permanent installation with higher bond strength and lower material and labor costs than conventional portland cement mortar beds. Higher bond strength, in conjunction with lower material and labor cost, provides a permanent installation on both exterior and interior surfaces.

> Combine Texrite's Latex Bond Admix 150 or Acrylic Admix 150 fs with **FLOOR MIX** to significantly improve bond strength, flexibility, abrasion resistance and erosion from chemical attack.

> In areas subjected to freezing conditions, Latex Bond Admix 150 liquid must be used. Frost and shock resistance are other benefits of Latex Bond Admix 150 liquid and Acrylic Admix 150 fs liquid. Meets ANSI 118.4 when mixed with

these liquids.

LIMITATIONS:

> **FLOOR MIX** must not be applied directly to wood, plywood, asphalt sheeting, vinyl covered wall board, masonite, cement asbestos board, metal, glass or plastic, particle board, curing compounds, asphaltic or chemically treated surfaces and gypsum mortar beds.

> Green and red marbles may warp when installed with setting materials containing water causing loss of bond and/or damage to the surface of the finish. These marbles must be set with Texrite's EPOXYPLUS® TS.

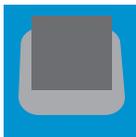
> **FLOOR MIX** mortar is not affected by prolonged contact with water but does not form a waterproof barrier.

APPLICABLE STANDARDS:

Conforms to requirements for dry-set mortars found in ANSI A118.1, ANSI A108.5 and CTI 64-1. Meets ANSI A118.4 when mixed with Texrite's Latex Bond Admix 150 liquid or Acrylic Admix 150 fs additive.

Technical Data: FLOOR MIX

TEST	REQUIREMENT	TYPICAL VALUES
*Open time @ 70 °F (21 °C)		10 minutes
*Adjustability @ 70 °F (21 °C)		10-15 minutes
*Pot life @ 70° F (21 °C)		5 hours
Compressive strength (psi) ASTM C-109	N/S	> 3000
Shear bond (psi) ANSI A118.4		
Non-vitreous tile 7 days	200 minimum	> 260
28 days	250 minimum	> 285
Vitreous (paver) 7 days	50 minimum	> 200
28 days	100 minimum	> 260



OVER
CONCRETE



INTERIOR/EXTERIOR
FLOORS/WALLS

*These values reflect the results of practical testing methods closely associated with applications in the field.



INSTALLATION: PREPARATORY WORK

All surfaces on which tiles are to be set must be structurally sound, completely clean, free of frost and in an atmosphere above 40 °F (4 °C) and below 90 °F (32 °C) during the initial 72 hours curing of the installation.

CEMENTITIOUS SUBSTRATES

Area must be clean and dry. Remove all efflorescence, grease, oil, dirt, paint, sealers, curing compounds, asphalt, cut back residue, old adhesives and other foreign matter. Failure to remove these items causes bond loss and voids product warranty. Roughen smooth steel troweled concrete. Remove foreign matter and/or roughen surface by mechanical scarified or shot-blasting to prepare surface. Dampen porous surfaces with clean water before installing the mortar and leave no puddles or remaining water on surface for best conditions. **FLOOR MIX** must be mixed with Latex Bond Admix 150 or Acrylic Admix 150 fs in lieu of water for all exterior application or bonding porcelain tile and other low absorption tiles.

PLYWOOD SUBSTRATES

Floor must be strictly built to resist flex and rigid to prevent bending with ceramic tile and stone. The surface shall comply with IRC and IBC building codes. Bond surface is exterior glue plywood only, secured with screw-type nails and glued where possible. An open gap of 1/8" - 3/16" (3-5 mm) must be left empty around sheets of plywood to allow for expansion. Plywood surfaces must be for interior areas only and water/moisture protected near wet areas. **FLOOR MIX** must be mixed with Texrite's Acrylic Admix 150 fs as direct replacement of water.

NON-CEMENTITIOUS SUBSTRATES

Area must be clean and dry. Remove all efflorescence, grease, oil, dirt, dust, paint, sealers, curing compounds, asphalt, cut back residue, old adhesives and other foreign matter. Failure to remove these items causes bond loss and voids product warranty. Roughen smooth steel troweled concrete. Remove foreign matter and/or roughen surface by mechanical scarified or shot-blasting to provide a roughened surface.

TILE OVER TILE AND OTHER SURFACES

It is absolutely essential that the existing tile and other surfaces be well bonded. The surfaces must be prepared in accordance with the requirements for cementitious surfaces. It is also necessary to abrade the surface to assure proper bonding. Mortar must be mixed with Texrite's Latex Bond Admix 150 liquid or Acrylic Admix 150 fs liquid. Other surfaces include terrazzo and marble.

WOOD SUBFLOOR

Structurally sound wooden surfaces must be covered with a cleavage membrane topped with a 1 1/4" (32 mm) reinforced mortar bed. After a minimum cure of 20 hours, **FLOOR MIX** can be applied to the mortar bed. (TCNA method F-141, F-145).

EXPANSION JOINTS

Shall be installed in accordance with local building codes. See EJ171 in TCNA Handbook for detailed specifications. Never bridge an expansion, saw cut or cold joint. Remove all thin-set, mortar grout and debris from joints before sealant is placed.

MIXING

Blend with clean, potable water or a latex admixture to desired paste consistency. 1.5 gallons per 50 lb bag. Mix with slow RPM (300) mixer.

APPLICATION

Mix **FLOOR MIX** with clean potable water (60° - 90 °F) to obtain a smooth paste mortar. Allow mix to slake for 10-15 minutes, then remix before using. Spread mortar with flat side of trowel to key-in substrate; then, reapply additional mortar to a depth sufficient to be notched with a suitable trowel that will leave only enough mortar to give 100% contact with back of tile and a subsequent mortar bed of 3/32" - 3/16" (3-5 mm). With high lug tiles, "back buttering" may be required to ensure 100% coverage of back of tiles. During the setting of tile, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made. It is also required that tiles be "beat in" to obtain good transfer of mortar to tile and for proper alignment. Do not adjust tiles in mortar after they have been set past 10-15 minutes. NOTE: As a practical test, it is recommended that three or more separate twelve inch square areas of tile be bonded to the properly prepared surface with the actual tile and bonding materials that will be used on the finished installation. These should be allowed to cure for 3-7 days and then removed with a hammer and chisel. At this point, one can determine if adequate bond has been obtained or if a problem exists.

TROWEL RECOMMENDATION

Suitable for providing a minimum 3/32" bed thickness after embedding the tile. Refer to coverage chart for proper trowel size.

CLEANING:

Water is all that is needed to remove uncured product.

COVERAGE:

A 50 lb (22.7 kg) bag using a square-notched trowel covers:
1/4" X 1/4" = 75 sq ft
1/4" X 3/8" = 65 sq ft
1/2" X 1/2" = 39 sq ft

CURING AND GROUTING:

Do not allow dry-set mortar to freeze for the first 72 hours. A minimum cure is obtained in 12-24 hours depending on ambient temperatures. Normal grouting should be done 48 hours later.

STORAGE LIFE:

One year if kept dry in sealed bag.

SAFETY - CAUTION: May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approved mask for silica dust. Contains portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.

KEEP OUT OF REACH OF CHILDREN

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