



PRODUCT INFORMATION

floor mix lht

Dry-set mortar for large and heavy tiles

FLOOR MIX LHT is a builder grade, factory blend of portland cement, sand and special additives which produce an excellent medium bed dry-set mortar for large format tile 15" x 15" or greater on floor tile installations with low absorption tiles (less than 7%).

TEXTURE:

Powder, consisting of portland cement and graded sand.

COLORS:

Gray or white.

PACKAGING:

3 sizes available

LIQUID:

White flowable latex additive.

BASIC USE:

> **FLOOR MIX LHT** is used as a medium bed bond coat for setting absorptive and semi-vitreous large format ceramic such as clay or red body tiles for service in residential and commercial use.

> It is used as the bond coat mortar 3/32" - 3/4" (3-19 mm) thickness after proper embedment.

AREA OF USE:

Suitable backings include properly prepared plumb and true masonry, concrete (broom finished) and cured portland cement mortar beds. Mix **FLOOR MIX LHT** with Texrite's 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 ceramic tile, marble, brick, cement based terrazzo and over waterproofing or crack isolation membranes meeting ANSI A118.10 and A118.12. Any other substrate must be approved in writing by an officer of the manufacturer.

BENEFITS:

> **FLOOR MIX LHT** provides a permanent installation with higher bond strength and lower material and labor costs than conventional portland cement mortar beds.

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

> Combine Texrite's Latex Bond Admix 150 or Acrylic Admix 150 fs with **FLOOR MIX LHT** to significantly improve bond strength, flexibility, abrasion resistance and erosion from weathering. This liquids must be used in lieu of water on exterior installations and subjected to frost conditions. Other benefits include increased impact and shock resistance and the addition meets ANSI 118.4 mixed with either liquid admix.

> The product will meet ANSI A118.11 and bond to EGP plywood when mixed with Texrite's Acrylic Admix 150 fs.

LIMITATIONS:

> **FLOOR MIX LHT** must not be applied directly to asphalt sheeting, vinyl covered wall board, masonite, lauan plywood, cement asbestos board, metal, glass, plastic or gypsum mortar beds.

> Improperly cured or wet plywood, particle board, OSB or strip wood surfaces are not considered suitable substrates.

> Apply in temperature range above 40 °F (4 °C). Do not allow mortar to freeze for the first 72 hours.

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

> Usage of gray **FLOOR MIX LHT** for setting light colored translucent marbles may produce shading in the marble. Use white **FLOOR MIX LHT** for setting light colored marble.

> The product does not form a water-proof barrier. It's not affected by prolonged water contact yet water and moisture will pass through it.

LIMITATIONS OF TILES:

> When using **FLOOR MIX LHT** on tiles with surface area of 1 sq ft or less shall not weigh in excess of 5 lb per sq ft (< 24.4 kg/m²).

> Tiles with surface area greater than 1 sq ft should not exceed 7 lb per sq ft (< 34.2 kg/m²) and should be tested to determine suitability of product by product by installing 3 test areas with actual tiles on the actual substrate.

> Tiles beyond the weight limit provisions should include spacers or mechanical systems to maintain lippage requirements.

APPLICABLE STANDARDS:

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



OVER CONCRETE



INTERIOR/EXTERIOR FLOORS/WALLS

Technical Data: FLOOR MIX LHT



TEST	REQUIREMENT	TYPICAL VALUES
*Open time @ 70 °F (21 °C)		15 minutes
*Adjustability @ 70 °F (21 °C)		10-15 minutes
*Pot life @ 70° F (21 °C)		5 hours
Compressive strenght (psi)	N/S	> 3100
ASTM C-109		
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	> 210
28 days	100 minimum	> 240

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

INSTALLATION: PREPARATORY WORK

All surfaces must be dry, structurally sound and solid and be 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 LHT** 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 LHT** must be mixed with Texrite's Acrylic Admix 150 fs as direct replacement of water.

NON-CEMENTITIOUS SUBSTRATES

All non conforming surfaces such as strip wood, old plaster, water-resistant gypsum board or painted surfaces can be covered with a cleavage membrane topped with a 3/8" to 3/4" (10-20 mm) reinforced mortar bed for walls and a 1 1/4" (32 mm) reinforced mortar bed for floors. After a minimum of 20 hours, the dry-set mortar can be applied to the mortar bed.

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 MB can be applied to the mortar bed. (TCNA method F-141. F-145).

EXPANSION JOINTS

Install expansion joints around all perimeters or restraining surfaces where possible to allow for expansion movement. Never bridge an expansion, contraction or construction joint. Add additional joints for large areas and areas subject to the sunlight, heat/cold temperatures in accordance with local building codes. See EJ171 in TCNA Handbook for detailed specifications. Remove all thinset mortar, grout and debris from joints before backer rod and sealant are placed.

MIXING

Add cool, drinkable water and dry powder **FLOOR MIX LHT** in a clean container. Stir by hand tool or low RPM (less than 300) drill mixer into a lump-free, mortar paste consistency. Drill mixer paddle or wand should be "open-loop" design to not add air or weaken the mortar. Mortar should be very soft paste mixture that does not slump, slide or flow from container. Allow freshly mixed mortar to slake (wait) for 15 minutes, then re-stir into a paste to get maximum working and spreading time. Do not add any additional water after this point. Stir mortar occasionally to prevent firm set of mortar. If a mortar sets firm in container discard it and re-mix a new batch. Mix approximately 5 1/2" quarts (5.2 liters) per 50 lb (22.7 kg) bag. **FLOOR MIX LHT** must be mixed with Texrite's 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.

APPLICATION

Apply the wet mortar to the bond surface with flat-side of trowel in a scraping or scratching motion to drive the wet mortar into the surface. Then take additional mortar with the notched-side of trowel to form and comb the ridges. Trowel the mortar ridges in one straight direction helps to prevent hollow tiles and maximized bond contact. Tiles with deep patterns, high lugs or on those with irregular texture on the back surface may require "back buttering" to ensure 100% coverage of back of tiles. Proper method of bonding of tiles requires embedding, pressing and sliding tiles perpendicular to wet mortar ridges to have a nominal mortar thickness of 3/32" - 3/16" (3-5 mm) and 100% coverage. 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. Do not adjust tiles in mortar after they have been set past 10-15 minutes. Do not abut tile to perimeter walls or restraining surfaces. Leave a minimum spacing of 1/4" (6 mm), void of any setting material or tile, to allow for expansion. Fill the 1/4" (6 mm) spacing with caulk or sealant if exposed. 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

Smaller tiles will use smaller notches trowels and larger tiles will require larger notched trowel suitable for providing a minimum 3/32" - 3/16" (3-5 mm) bed thickness after embedding the tile.

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:

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 in tightly sealed containers in temperatures from 40-90 °F. Protect from freezing.

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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