

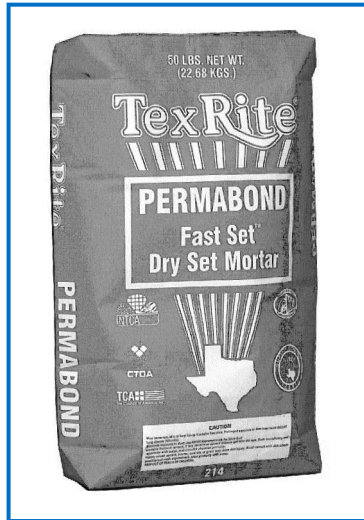


PERMABOND FAST SET

Fast Setting Dry-Set Mortar

Product Information

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Permabond Fast Set is a factory blend of Portland cement, sand and special chemical additives which produce an excellent, fast setting dry-set Mortar.

Permabond Fast Set enables the contractor to set tile and grout within two hours so that he will have a finished installation which can be open to foot traffic in four hours.

BASIC USE

Permabond Fast Set is used as a bond coat for

setting absorptive, semi-vitreous and vitreous ceramic tile for service in residential and commercial use for both floor and wall installations. It is used in a mortar bed as thin as 3/32" after tiles have been properly embedded. **Permabond Fast Set** is water cleanable, non-flammable and requires no soaking of tiles. **Permabond Fast Set** mortar is not affected by prolonged contact with water, but does not form a waterproof barrier. **Permabond Fast Set** provides a permanent installation with higher bond strength, and lower material and labor costs than conventional Portland cement mortar beds. The addition of TexRite La-O-Tex Admixture or A-Crylic Mortar Admixture to **Permabond Fast Set** significantly improves frost and shock resistance, bond strength, flexibility and erosion from chemical attack.

AREA OF USE

Suitable backings, when clean and properly prepared, include plumb and true masonry concrete (broom finished), gypsum board (dry interior areas only), and cured Portland cement mortar beds. For cementitious backer units, brick, concrete block, unglazed ceramic tile, porcelain bodied tile, marble and exterior applications, La-O-Tex Admixture or A-Crylic Mortar Admixture must be used in lieu of water when mixing Permabond Fast Set. Any other substrate including waterproofing and crack isolation membranes must be approved in writing by an officer of the manufacturer.

LIMITATIONS

Permabond Fast Set must not be applied directly to wood, asphalt sheeting, vinyl covered wall board, Masonite®, cement asbestos board, metal, glass, plastic, particle board, asphaltic or chemically treated surfaces or gypsum mortar beds.

APPLICABLE STANDARDS

Meets and exceeds requirements for dry-set mortars found in ANSI A118.1 sect. C-2.1.1 and ANSI A108.5. When mixed with La-O-Tex Admixture or A-Crylic Mortar Admixture, conforms to requirements for ANSI 118.4 sect 2.1.1— Fast Setting Latex-Portland Cement Mortar.

PACKAGING

COLOR: Gray
TEXTURE: Powder, consisting of Portland cement, graded sand, organic and inorganic chemicals.
PACKAGING: 50 lbs. Multi-wall bags.

INSTALLATION

Preparatory Work

All surfaces on which tiles are to be set must be structurally sound, completely clean and free of frost and in an atmosphere above 40°F during its initial (72 hours) cure.

Cementitious Substrates

Area must be dry and free of efflorescence, grease, oil, dirt, dust, paint, sealers, curing compounds, asphalt, cut back residue, old adhesives and other foreign matter. Cleaning may be accomplished via mechanical sanding, scraping, chipping or shot blasting. Smooth steel troweled concrete must be scarified or shot-blasted to provide a roughened surface.

Non-Cementitious Substrates

Surfaces such as wood and old plaster or painted surfaces that provide bonding problems should be covered with a cleavage membrane topped with a 3/8" to 3/4" reinforced mortar bed for walls and a 1 1/4" reinforced mortar bed for floors. After a minimum of 20 hours, **Permabond Fast Set** can be applied to the mortar bed. Follow W222 for walls and F141 for floors in T.C.N.A. Handbook.

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 La-O-Tex Admixture or A-Crylic Mortar Admixture. 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" reinforced mortar bed. After a minimum cure of 20 hours, **Permabond Fast Set** can be applied to the mortar bed. (TCNA Method F-141, F-145)

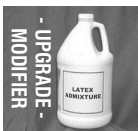
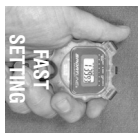
Expansion Joints

Shall be installed in accordance with local building codes. See EJ171 in T.C.N.A. Handbook for detailed specifications. Never bridge an expansion, contraction, or construction joint. Remove all thinset, mortar, grout and debris from joints before sealant is placed.

Mixing

Blend with clean, potable water (60°-80°F) or a latex liquid admixture to desired paste consistency. Mix approximately 6 quarts per 50 lb. bag. Mix with slow RPM (300) mixer. If after 30 minutes, the material becomes hardened, do not add water, but discard.

PERMABOND
FAST SET



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Product Information

Back - Page 2

PERMABOND
FAST SET

Application

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". Comb mortar with notched side of trowel in one direction only. Set the tile in the mortar and move the tile back and forth perpendicular to the trowel ridges to collapse the ridges and "embed" the tile in the mortar establishing complete coverage. 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. 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", void of any setting material or tile, to allow for expansion. Fill the 1/4" 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 72 hours 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.

Coverage

Coverage per 50 lbs. bag using a square-notched trowel:
 $1/4" \times 1/4" = 88 \text{ sq.ft.}$, $1/4" \times 3/8" = 76 \text{ sq.ft.}$, $1/2" \times 1/2" = 46 \text{ sq.ft.}$

Working Time

Approximately 30 – 45 minutes, depending on ambient temperature. Use temperature range between 50°F- 90°F.

Cleaning

Water is all that is needed to remove uncured mortar.

Curing and Grouting

Grouting can begin as soon as the tiles are firmly set (about two

hours after setting). If an accelerated grout is necessary, use Dry Wall Grout, AR Grout or Ac-CENT Grout mixed with Curefast Liquid Additive in lieu of water.

SPECIFICATIONS

Technical Data: PermaBond Fast Set

Test	Requirement	Typical Values
*Open time @70°F	–	10 minutes
*Adjustability @ 70°F	–	10-15 minutes
*Bucket life @ 70°F	–	45 minutes
*Compressive Strength (PSI) ASTM C-109	–	>3300
Shear Bond (PSI) ANSI A118.1 Non-Vitreous Tile		
	2 hours	N/R 200
	4 hours	N/R 300
	24 hours	N/R 500
Vitreous (Paver) Tile		
	2 hours	N/R 140
	4 hours	50 350
	24 hours	N/R 450

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

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. Recommend use of a NIOSH approved mask for silica dust. Contains Portland cement. If any cement or cement mixture gets into the 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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