

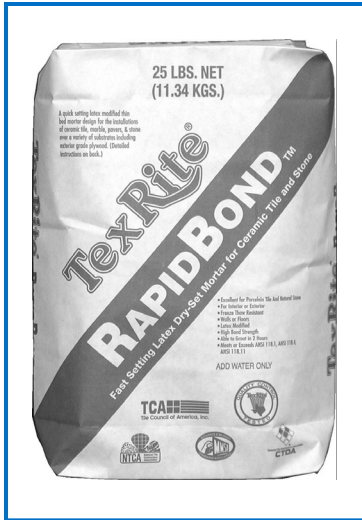


RAPID BOND

Fast Setting Latex-Portland Cement
Mortar Bond Coat

Product Information

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Rapid Bond is a specially developed fast setting dry-set mortar composed of Portland cement, sand, and special polymer additives. It has an excellent bond to porcelain tile, ceramic tile, marble and stone over a variety of substrates. **Rapid Bond** offers the economy and ease of application of dry-set mortars while significantly improving bond strengths, freeze-thaw stability, flexibility and other qualities formerly only available

through the use of liquid latex additives or epoxy emulsion systems.

BASIC USE

RapidBond is used as a bond coat for setting absorptive tiles, semi-vitreous, vitreous and impervious ceramic, porcelain and stone tile for service in residential and commercial use. It is used in a mortar bed as thin as 3/32" - 3/16" after the tiles have been properly embedded. **RapidBond** has excellent water and impact resistance, is water cleanable, nonflammable, good for interior and exterior work and requires no soaking of tiles. **RapidBond** provides a permanent installation with higher bond strength, and lower material and labor costs than conventional Portland cement mortar beds.

AREA OF USE

Suitable backings, when properly prepared, include plumb and true masonry, concrete (broom finished), cementitious backer units, cured Portland cement mortar beds, brick, ceramic tile, marble and cement based terrazzo. In interior dry areas only, it can be used over gypsum board (walls only) and exterior glue plywood. **RapidBond** may also be used over properly prepared VCT, sheet vinyl flooring (except cushion backed) and cutback adhesive residue when prepared in accordance with the Resilient Floor Covering Institute's Recommended Work Practices for Removal of Resilient Floor Coverings. **RapidBond** may be used 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.

LIMITATIONS

RapidBond must not be applied directly to asphalt sheeting, vinyl covered wall board, Masonite®, luan plywood, cement asbestos board, metal, glass, plastic, curing compounds, and chemically treated surfaces. Improperly cured or wet plywood, tongue & groove plywood, particleboard, strip wood surfaces or gypsum mortar beds are not considered suitable substrates. 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 mar-

bles must be set with EpoxyPlus 2002TS. This product is not affected by prolonged water contact but it does not form a water-proof barrier.

APPLICABLE STANDARDS

Meets and exceeds requirements for dry-set mortars found in ANSI A118.1, ANSI 118.4, sect F-2.1.1 (Fast Setting Dry-Set Mortar), A118.11, A108.5, A108.11 and A108.12.

PACKAGING

COLOR: Gray only.
TEXTURE: Powder, consisting of Portland cement, polymer additives graded sand, organic and inorganic chemicals.
PACKAGING: 25 lbs. Multi-wall bags.

INSTALLATION

Preparatory Work

All surfaces on which tiles are to be set must be dry, structurally sound, and not subject to temperatures below 40°F or above 90°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.

Plywood Substrates (Residential Traffic only)

Floor systems, including the framing system and subfloor panels, over which underlayment and tile will be installed shall be in conformance with the IRC for residential applications, the IBC for commercial applications, or applicable building codes. Further, the underlayment to receive the **RapidBond** mortar should be exterior glue plywood only, secured with screw type nails and glued where possible. A gap of 1/8"-3/16" shall be left between sheets of plywood to allow for expansion. In addition, all plywood surfaces it must be for interior use only and protected from exposure to water.

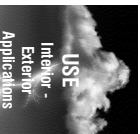
Non-Cementitious Substrates

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, the dry-set mortar may 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. Other surfaces include terrazzo and stone. Remove all waxes, sealers and coatings that would interfere with the bond.

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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 **RapidBond** with clean, potable water only (60°-80°F) to a stiff paste consistency. Mix approximately 3 quarts per 25 lb. bag. Never add another latex liquid to this product. Mix with slow RPM (300) mixer. Do not use a high-speed drill to mix mortar. Mix thoroughly until smooth. Mix only enough mortar that can be used within 30- minutes. The proper mortar paste consistency is such that when applied with a notched trowel to the substrate, the ridges formed in the mortar will not flow or slump. Some stiffening of the mortar may occur prior to 30-minutes. Re-stir occasionally. If the mortar becomes stiff after 30 minutes, discard.

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 beat-in.

Coverage

Per 25 lbs. bag using a square-notched trowel covers:
1/4" x 1/4" = 44 sq.ft., 1/4" x 3/8" = 38 sq.ft., 1/2" x 1/2" = 23 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: RapidBond

Test	Typical Values
*Open time @70°F (21°C)	12 minutes
*Adjustability @ 70°F (21°C)	15 minutes
*Bucket life @ 70°F (21°C)	45 minutes
Shear bond ANSI A118.4	
Non-Vitreous Tile	4 hours 250 psi (17.6 Kg/cm ²) 7 days 425 psi (29.9 Kg/cm ²) 28 days 550 psi (38.7 Kg/cm ²)
Porcelain Tile	4 hours 150 psi (10.5 Kg/cm ²) 7 days 250 psi (17.6 Kg/cm ²) 28 days 400 psi (28.1 Kg/cm ²)
Quarry Tile (Over Wood)	2 hours 150 psi (10.5 Kg/cm ²)
ANSI A118.11	7 days 250 psi (17.6 Kg/cm ²) 28 days 300 psi (21.1 Kg/cm ²)

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

Safety – CAUTION: This product contains Portland cement and silica sand. When mixing or working in a dusty atmosphere, Recommend use of a NIOSH approved respirators or masks. When freshly mixed, this product may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water. If any of this mixture gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention.

KEEP OUT OF THE REACH OF CHILDREN.

Shelf Life - One year if kept dry in sealed bag.

GUARANTEE - The recommendations, suggestions, statements and technical data in this bulletin are based on our best knowledge. They are given for informational purposes only and without any responsibility for their use. The responsibility for the seller and manufacturer is only to replace that portion of the product of this manufacturer, which proves to be defective due to the quality of the ingredients or the manufacturing process itself. However since handling and use is beyond our control, we do not guarantee the results to be obtained. Only written statements signed by an officer of the manufacturer are binding on the manufacturer or seller. Nothing in this bulletin should be interpreted as a recommendation for a use, which violates any patent rights.

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