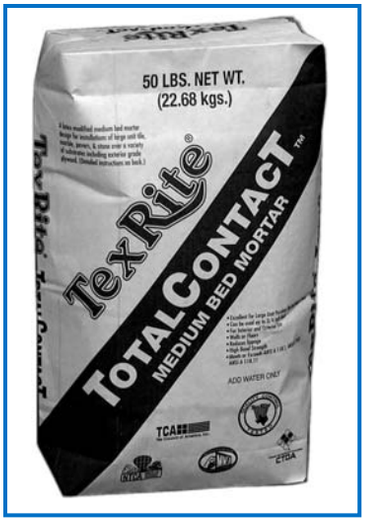
TotalContacT™

Latex-Portland Cement Mortar Bond Coat
Medium-Bed and Non-Sag Dry-Set Mortar

Product Information



TotalContacT is a medium bed, non-sag dry-set mortar pre-blended with powdered latex polymer. It is composed of Portland cement, sand and special additives and is used as a bond coat for setting thin marble, granite, and other large unit tiles over a variety of substrates. ***TotalContacT*** offers the ease of application and economy of dry-set mortars while significantly improving bond strengths, freeze-thaw stability, flexibility and other qualities formerly only available through the use of liquid additives or epoxy emulsion systems.

BASIC USE

TotalContacT is specifically formulated to hold large tile and marble units in place on vertical surfaces. It may also be used on horizontal surfaces where its non-sag properties limit the settling after placement of marble thereby reducing lippage. It may be used in a setting bed as thin as $^{3}/_{32}$" or as thick as $^{3}/_{4}$" after embedding the tile.
TotalContacT may be used for setting absorptive, semi-vitreous, vitreous and impervious ceramic, porcelain and stone tiles in residential or commercial service areas. It may be used for interior or exterior applications. It has excellent water and impact resistance,is water cleanable, non-flammable and requires no soaking of tiles.

AREA OF USE

Suitable backings, when properly prepared, include plumb and true masonry, concrete (broom finished), cured Portland cement mortar beds, cementitious backer units, brick, ceramic tile, marble and cement based terrazzo. In interior dry areas only, ***TotalContacT*** may be used over gypsum board (walls only) and exterior glue plywood.
TotalContacT 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

TotalContacT must not be used directly over asphalt sheeting, vinyl covered wallboard, Masonite®, lauan plywood, cement asbestos board, metal, glass, plastic, gypsum mortars, curing compounds or chemically treated surfaces. Improperly cured or wet plywood, tongue and grove plywood, particle board, OSB, or strip wood surfaces are not considered suitable substrates. Some green and red marbles may warp when installed with setting materials containing water, which cause loss of bond and/or damage to the finish. These marbles must be set with EpoxyPlus 2002TS. Usage of gray ***TotalContacT*** for setting light colored translucent marbles may produce shading in the marble. Use white ***TotalContacT*** for setting light colored marble. This product is not effected by prolonged water contact but it does not form a water-proof barrier.

LIMITATIONS OF TILES

When using ***TotalContacT*** on vertical surfaces, tiles with surface area of 1 square foot or less shall not weigh in excess of 5 pounds per square foot. Tiles with surface area of greater than 1 square foot should not exceed 7 pounds per square foot and should be tested to determine suitability of product by installing 3 test areas with actual tiles on the actual substrate. Tiles beyond the weight limit provisions should include spacers, mechanical clips and anchors. These clips and anchors shall be installed in accordance with local building codes.

APPLICABLE STANDARDS

Conforms to the requirements for dry-set mortars in ANSI A118.1, ANSI A118.4, A118.11 and ANSI A108.5, A108.11, A108.12.

PACKAGING

COLOR:	Gray or white.
TEXTURE:	Powder, consisting of Portland cement, polymer additives, 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, free of frost and in an atmosphere above 40º F and below 90º 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
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 applicatons, or applicable building codes Further, the underlayment to receive the ***TotalContacT*** 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 and remain empty after the installation to allow for expansion. In addition, all plywood surfaces must be for interior use only and protected from exposure to water.

Non-Cementitious Substrates
Surfaces such as strip wood and old plaster or painted surfaces that provide bonding problems should be covered with a cleavage membrane and topped with a $^{3}/_{8}$" to $^{3}/_{4}$" reinforced mortar bed for walls and 1 $^{1}/_{4}$", reinforced mortar bed for floors. After a minimum cure of 20 hours of the mortar bed, ***TotalContacT*** 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 surface must be prepared in accordance with the requirements for cementitious substrates. It is also necessary to abrade the surface to assure proper bonding. Other surfaces include terrazzo and marble. Remove all waxes, sealers and coatings that would interfere

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with the bond.

Expansion Joints
Expansion joints shall be installed in accordance with local building codes. See EJ 171 in TCNA 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 water only (60°-80°F) to desired paste consistency. Mix approximately 7 quarts of water per 50 pound 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. Allow mix to slake for 10 to 15 minutes, then remix before using. 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; restir occasionally. Do not use mortar after initial set in bucket. During use, remix mortar occasionally.

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 enough mortar to give 100% contact with back of tile and a subsequent mortar bed of the desired depth from 3/32" to 3/4" thick. The maximum thickness over plywood shall not exceed 1/4". 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" to 3/4" bed thickness.

Coverage
Per 50 lbs. bag using a square-notched trowel covers:
1/4" x 1/4" =77 sq.ft., 1/4" x 3/8" =66 sq.ft., 1/2" x 1/2" =41 sq.ft.

Working Time
Approximately 2 to 3 hours, depending on ambient temperature.

Cleaning
Water is all that is needed to remove uncured mortar.

Curing and Grouting
A minimum cure is obtained in 12-24 hours, depending on ambient temperatures. Normal grouting should be done 48 hours after tiles have been set except for setting beds in excess of 3/8" which require 72 hours before grouting.

SPECIFICATIONS

Technical Data: TotalConTacT

Test		Requirement	Typical Values
*Open time @70°F		–	15 minutes
*Adjustability @ 70°F		–	15-20 minutes
*Bucket life @ 70°F		–	6 hours
*Compressive Strength (PSI)		–	>3200
ASTM C-109			
Shear Bond (PSI) ANSI A118.4			
Non-Vitreous tile	7 Day	100 Minimum	>475
	28 Day	300 Minimum	>575
Porcelain tile	7 Day	N/S	>225
	28 Day	N/S	>300
Quarry tile (over wood)	7 Day	100	>200
ANSI A118.11	28 Day	150	>300

**These values reflect the results of practical testing methods closely associated with applications in the field. N/S= No Standard*

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.

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

THE PERFECT MORTAR FOR THE PERFECT MARBLE INSTALLATION

TotalContacT's non-snag properties allow installation of large unit tiles with no slippage.

TotalContacT may be applied up to 3/4" thick to compensate for variations in tiles or substrates

TotalContacT is a dry-latex modified dry-set mortar used as a bond coat for setting thin marble, granite, and other large unit tile over a variety of substrates including exterior glue plywood.

Non-Sag Properties eliminates time spent installing and removing tile spacers on vertical applications.

Medium Bed Thickness means more room for adjustment in tile height with less settling which reduces lippage.

Dry-Latex Modification means the proper amount of latex in the final mixture, which provides the maximum bond strength.

TotalContacT means less labor, fewer callbacks, and maximum profits.