



MULTI-PURPOSE Latex-Portland Cement Mortar Bond Coat

Product Information

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Multi-Purpose is a special latex-Portland cement mortar with latex-polymer powder pre-blended in the bag. It is used as a bond coat for setting all types of ceramic tile, marble and stone over a variety of substrates. It offers significantly improved bond strengths, freeze-thaw stability and other qualities formerly only available through the use of liquid latex additives or epoxy emulsion systems.

BASIC USE

Multi-Purpose is used as a bond coat for setting absorptive tiles, semi-vitreous, vitreous and impervious ceramic and porcelain 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. **Multi-Purpose** has excellent water and impact resistance, is water cleanable, non-flammable, good for interior and exterior work and requires no soaking of tiles. **Multi-Purpose** 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 clean and 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. **Multi-Purpose** may also be used over properly prepared VCT, sheet vinyl flooring (excluding 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. **Multi-Purpose** may be used over water-proofing 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

Multi-Purpose must not be applied directly to asphalt sheeting, vinyl covered wall board, Masonite, lauan plywood, cement asbestos board, metal, glass, plastic, cut back adhesives, curing compounds, and chemically treated surfaces. Improperly cured or wet plywood, tongue & groove plywood, particle board, 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 marbles must be set with EpoxyPlus 2002TS. Use in temperature range above 40° F (Do not allow mortar to freeze for the first 72

hours.) This product is not effected 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, A118.4, A118.11, ANSI A108.5, A108.11 and 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 and free of frost and in an atmosphere above 40° F and below 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.

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.

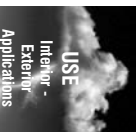
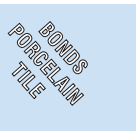
Plywood Substrates

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 applications, or applicable building codes. Further, the underlayment to receive the **Multi-Purpose** 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.

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 marble. Remove all waxes, sealers and coatings that would interfere with the bond.

MULTI-PURPOSE



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Expansion Joints

Shall be installed in accordance with local building codes. See EJ 171 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 water only (60°-80°F) to desired paste consistency. Mix approximately 5 1/2 quarts per 50 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. 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.

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 50 lbs. bag using a square-notched trowel covers:
 $1/4" \times 1/4" = 77 \text{ sq.ft.}$, $1/4" \times 3/8" = 66 \text{ sq.ft.}$, $1/2" \times 1/2" = 40 \text{ sq.ft.}$

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 to 24 hours depending on ambient temperatures. Normal grouting should be done 48 hours later(ANSI A-108.5).

SPECIFICATIONS

Technical Data: Multi-Purpose

Test	Requirement	Typical Values
*Open time @70°F	-	12 minutes
*Adjustability @ 70°F	-	15 minutes
*Bucket life @ 70°F	-	8 hours
*Compressive Strength (PSI) ASTM C-109	-	>3200
Shear Bond (PSI) ANSI A118.4		
Non-Vitreous Tile	7 Day 300 Minimum	>400
	28 Day 300 Minimum	>500
Vitreous (Paver) Tile	7 Day 100 Minimum	>200
	28 Day 150 Minimum	>300
Non-Vitreous Tile	7 Day 100 Minimum	>250
(over wood) ANSI A118.11	28 Day 150 Minimum	>300

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

Safety – CAUTION: May cause eye, skin or lung injury. Contain 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.

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