

PATRIOT

MULTI-PURPOSE THINSET MORTAR

DESCRIPTION:

A multi-purpose thin set Latex-Portland Cement Mortar designed for installation of all types of tiles over a variety of substrates. It may be used for either floors or walls on interior applications where a Latex-Portland Cement Mortar is required. Redispersible powder additives are used to improve adhesion, reduce water absorption and provide greater bond strength and resistance to impact and shock. These additives allow for some latitude in time, working conditions and temperature.

USES:

Multi-purpose thin set is to be used to set both vitreous and non-vitreous ceramic tiles for service requirements of residential, light commercial and light industrial use. Applications include vertical or horizontal use over properly prepared concrete, mortar beds, cementitious backer units, (APA) exterior grade plywood (interior use only), existing ceramic tile and gypsum board (interior wall use only).

LIMITATIONS:

Multi-purpose thin set may not be used directly over gypsum-based underlayments, metal, glass, plastic, Luan plywood, cement asbestos board, particle board, and asphalt sheeting. When using Multi-purpose thin set in any area that will be wet continually (shower receptors, swimming pools, etc.) allow mortar to cure a minimum of 14 days prior to any exposure containing water. Some green, red and black marbles may warp when installed with dry-set mortars containing water. Use 100% solids epoxy mortar.

PREPARATION:

Detailed installation procedures may be found in the TCA Handbook and ANSI 108.5

CONCRETE AND CEMENT SUBFLOORS:

All floors should be 28 days cured and free of moisture. Floors must be free of wax, oil, dust, or paint particles. Hence, any further cleaning shall be done by sanding or using (sulfamic acid). Remove any liquid curing agents or concrete sealers, followed by a clear water wash.

PLYWOOD AND WOODEN SUBFLOORS:

All plywood shall be exterior grade, free of dust, oil and any other foreign matters. The typical floor or other system shall consist of joints spaced not over 16" O.C. and a double subfloor of 5/8" or thicker plywood or 1" nominal boards. All floors shall be engineered so that the maximum deflection under normal or full loads does not exceed L/360 of the span. A gap 1/8" - 1/4" shall be left around all vertical abutments, also a 1/4" gap shall be left between sheets of wood. Note: Interior use only.

ALTERNATE SUBFLOORING:

To bond over existing ceramic tile, marble, vinyl, asphalt and resilient flooring, floors must be bonded well to its subfloor and free of any wax, oil dust or paint particles. For use over existing ceramic tile; Scarify surface of tile via mechanical abrasion with a Carborundum disk followed by a clear water wash. Then prime with Concrete Bonding Agent.

MIXING:

Multi-purpose thin set powder should be added to approximately 1-1/2 gallons of clean potable water per 50 lbs. Mix thoroughly to a smooth paste-like trowable mix, allow mortar to slake for 5-10 minutes, then re-mix. While using a mechanical mixer, do not exceed 150 rpm so not to entrain air in the mortar. Do not add additional water after mortar slakes. Excessive water in mixing will reduce the performance of Multi-purpose thin set. Do not reuse mortar after initial set in bucket. Stir mortar occasionally during use.

APPLICATION:

Apply the mortar liberally with the flat side of trowel. Use sufficient pressure to work mortar in good contact. Then comb with notched edge of trowel to leave uniform edges. Place tile while surface is wet and tacky. Spread only as much mortar as can be covered in 15-20 minutes or before surface dries. Place tiles with a twisting motion and beat lightly before initial set takes place, to fully imbed in the mortar. Mortar that has formed skin should be re-troweled before applying tile. Use proper sized notched trowel (see diagram) to ensure 100% coverage of mortar to tiles and substrate. Some irregular tiles require back buttering. Industry standards require approximately 3/32" to 3/16" mortar bed thickness after beat in

GROUTING/CURING:

Multi-purpose thin set will obtain a minimum cure within 12-24 hours, depending on atmospheric conditions. Before grouting, all tiles must be firmly set.

COVERAGE:

Setting requirements (sq. ft.)

Trowel size

1/4"x1/4"	1/4"x3/8"	1/2"x1/2"
75	65	40

SPECIFICATIONS:

Meets ANSI 118.4 – Latex Portland Cement Mortar. Follow ANSI A 108.5 for installation.

LIMITED WARRANTY:

Patriot will replace any material proved defective with the maximum shelf life on unused material of up to one (1) year. If our products are not found to conform to our high standards, notify Patriot Flooring immediately in writing. There is no other obligation expressed or implied and we assume no liabilities for damage of any kind. Suitability of the product for an intended use shall be solely up to the user.

SHELF LIFE: One year in unopened properly stored container.

WARNING

ALL PORTLAND CEMENT BASED PRODUCTS MAY CONTAIN DETECTABLE AMOUNTS OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. THIS IS IN COMPLIANCE TO PROPOSITION 65. UPON REQUEST MATERIAL SAFETY DATA SHEETS ARE AVAILABLE.

CONTAINS FREE SILICA

DO NOT BREATHE DUST

May Cause Delayed Lung Injury (Silicosis)

Follow OSHA Safety and Health Standards

For Crystalline Silica (Quartz)

CAUTION:

Rubber gloves and protective clothing are recommended. Sensitive skin may have an allergic reaction to epoxy system. Eye irritant, wash hands thoroughly after handling and before smoking or eating. Keep out of reach of children.