

SUPER-TEK

One Step™

High-performance, polymer modified thinset mortar

For ceramic, porcelain, quarry, marble, pavers and other natural stone tile installations. The original one component thin-set mortar designed for bonding tile to properly prepared wood subflooring.

- Enhanced flexibility
- High bond strength
- Excellent adhesion to plywood subfloors
- Residential to heavy commercial applications
- Floor and wall installations
- Interior and exterior use
- Exceeds ANSI A118.4 standards

Installation

All installations must be set in accordance with the most recent publication of the Tile Council of North America's "TCNA Handbook for Ceramic, Glass, and Stone Tile Installation" and the following guidelines.

Approved Substrates

Properly prepared concrete, concrete block, plumb and true masonry, gypsum board, cured Portland cement beds, exterior grade plywood (interior floors only), cement backer board, brick, ceramic tile, marble, and terrazzo.

DO NOT USE OVER: hardwood, masonite, chipboard, flakeboard, presswood, asbestos board, vinyl flooring, luan plywood, OSB, metal, gypsum based levelers, glass, plastic, cutback adhesive residue, laminate counter tops, or other similarly unstable substrates.

PLEASE NOTE:

- 1) Not for use with Green Marble or similar moisture sensitive tiles prone to "curling".
- 2) Use white thin-set mortar when installing light colored marble and light colored grouts.

CARPENTRY REQUIREMENTS FOR PLYWOOD FLOORS (INTERIOR ONLY):

- 1) Installation requires two layers of APA exterior plywood, underlayment grade or better, with a minimum total thickness of 1-1/4". Fasten layers with screw nails located 6" centers along plywood edges and 8" centers each way throughout the sheet.

- 2) The subfloor must consist of a minimum of 5/8" exterior plywood or 1" nominal boards over bridged floor joists 16" on center with a maximum deflection of 1/360 of the span.

- 3) The top layer must consist of a minimum of 5/8" exterior plywood with offset end and edge joints at least two inches from the subfloor joints.

- 4) Leave a 1/8" to 1/4" space between top layer sheet edges and all materials they abut such as walls, drains, posts, etc. These joints should be filled with the setting mortar when tiles are being installed. Adjacent edges of plywood must not be more than 1/32" above or below each other.

- 5) Install plywood with rough or knotty side exposed to enhance mechanical adhesion of thin-set mortar to plywood.

- 6) Enhanced adhesion may be attained by priming the plywood with either Super-Tiler or Super-Weld.

Mixing

- 1) Pour approximately 6 quarts of cool, clean water into a clean mixing container.

- 2) Gradually add powder while slowly mixing using a slow speed bucket mixer or mortar box. Do not use high-speed drills.

- 3) Continue mixing for about 3-5 minutes or until the mixture becomes a thick, smooth, paste-like consistency.

- 4) Allow mixture to slake (stand) for 10-15 minutes.

- 5) Then remix 1-2 minutes before applying.

NOTE: Mixture should be stirred occasionally during use, do not retemper. Pot life approximately 2-3 hours depending on temperature and humidity.

Application

All surfaces must be clean and free of dust, grease, wax, and foreign matter. Using pressure, apply a thin skim coat with flat edge of trowel. Then using the proper sized notched trowel apply a second coat to form ridges. Trowel only in an area that can be tiled before the mortar skins over (15-20 minutes). If mortar skins over, remove and apply fresh mortar. Apply dry tiles with pressure and a slight twisting motion. Immediately beat tiles in to ensure maximum contact and bond. After setting several tiles, remove one or two and inspect, making sure tile backs are 100% covered with mortar. Back buttering of tiles may be necessary to insure 100% coverage. Do not use at temperatures below 45°F (7°C) or above 95°F (35°C).

**High
performance
ceramic tile,
stone and
marble
installation
products for the
professional
installer**

STP

REV: A, 12/1/2016

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TECHNICAL DATA One Step (mixed with water)	
ANSI A118.4 – 1999 TEST	RESULTS
28 DAY SHEAR STRENGTH (GLAZED WALL TILE)	>565 PSI
28 DAY SHEAR STRENGTH (IMPERVIOUS CERAMIC MOSAIC TILE)	>360 PSI
SHEAR BOND QUARRY TILE/PLYWOOD	>205 PSI
TCA SERVICE RATING ASTM C-627	>EXTRA HEAVY
VOCs/ASTM D6886	0 g/L
PROPERTIES at 72°F (22°C) & 50% relative humidity	
OPEN TIME*	≥ 50 MINUTES
POT LIFE*	2-3 HOURS
TIME BEFORE GROUTING*	24 HOURS
*ALL PROPERTIES MAY VARY BASED ON JOB SITE CONDITIONS	

Curing

Dual Mix may be damp cured with water for three days to increase hardness prior to grouting. All traffic should be kept off of floors for a minimum of 48 hours. Jobsite temperature must remain between 45°F and 95°F for a minimum of 72 hours after installation.

Grouting

May be accomplished in 24 hours if tiles are firmly set and kneeling boards are used. To ensure quality joints, use one of Super-Tek's high performance grouts.

Packaging

50 lb. (22.7 Kg.) multi-wall paper bag, available in grey and white.

Shelf Life

One year when stored in original packaging in a dry, ventilated place. Exposure to moisture will shorten the shelf life.

Technical Assistance

Monday through Friday
8:00 AM to 4:30 PM EST
T 718-278-7900 ext. 111
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Website: www.super-tek.com

NOTICE AND WARRANTY DISCLAIMER: The MANUFACTURER has provided these Instructions/Recommendations [I/R] to assist the USER in the application of this product. These I/Rs are not warranted to be comprehensive, complete, thorough or conclusive as regards any specific installation. Before using, USER shall determine the suitability of the product for its intended use and USER alone assumes all risks and liability whatsoever in connection therewith. The liability of the SELLER and the MANUFACTURER, whether express or implied, whether in contract or in tort, arising out of warranties, representations, instructions or defects from any cause shall be limited exclusively to replacing the product, provided the same is proved defective, or refunding the purchase price upon return of the unused product. In no event will SELLER or MANUFACTURER be liable for consequential damages, including but not limited to, loss of materials, costs of labor, loss of profits, costs of replacement goods, or other commercial loss. The USER accepts the product AS IS, and without warranties expressed or implied. Any claims shall be deemed waived unless made in writing to MANUFACTURER within ten (10) days from date it was, or reasonably should have been, discovered.

COVERAGE & TROWEL SIZES

(DIAGRAMS NOT ACTUAL SIZE)



Ceramic Mosaics: 3/16" x 3/16" V-notched (saw tooth) trowel. Approximate coverage 100-115 sq.ft. per bag.



Ceramic, Quarry & Vitreous Tiles Up To 6" x 6" in Size: 1/4" x 1/4" x 1/4" Square-notched trowel. Approximate coverage 75-85 sq.ft. per bag.



Ceramic, Quarry, Vitreous & Natural Stone Tiles (Includes Lug-Backed Tiles) Up To 12" x 12" in Size: 1/4" x 3/8" x 1/4" Square-notched trowel. Approximate coverage 50-55 sq.ft. per bag.

NOTE: When installing tiles larger than 12" x 12" use appropriate sized trowel to ensure 100% coverage of tile back (i.e. 3/4" U-notched trowel). Coverage will vary.

WARNING! EYE AND SKIN IRRITANT.

Contains crystalline silica and Portland cement. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling. For additional information, see Safety Data Sheet (SDS) for this product on our website.

KEEP OUT OF THE REACH OF CHILDREN!



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