

SUPER-TEK

Super-Lite™ Universal Tile Mortar

Multi-Purpose Lightweight Ceramic Tile Mortar for Large Format Tiles, Walls and Floors

- **Great for large format tiles and all types of tiles and substrates**
- **Lightweight mortar offers superior application properties reducing labor effort**
- **White formulation does not stain light-colored marbles or grouts**
- **Medium-bed mortar body prevents lippage issues**
- **Non-sagging with largest tiles, eliminates need for spacers and support boards**

Super-Lite™ Universal Tile Mortar is a multi-purpose, lightweight thin-set and medium-bed mortar designed for both horizontal and non-sag vertical installations of all ceramic tile coverings on floors, ceilings, walls and countertops in dry and wet areas. Super-Lite is ideal for both interior and exterior use in residential and commercial installations.

Use with non-vitrified (absorbent) tiles, vitrified (non-absorbent) tiles, porcelain mosaics, glass mosaics, glass tiles, quarry tiles, terracotta, marble and granite tiles.

Glass tiles may be factory coated on their backs to enhance aesthetics. These coatings may act as a bond breaker, so perform an adhesion test prior to full installation. Mosaic mesh-backed products must be tested for adhesion compatibility due to reduced surface contact and the use of water soluble or incompatible adhesives in their manufacturing. Do not install mosaic mesh-backed tile in areas exposed to constant water immersion such as swimming pools.

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.

Recommended Substrates

Cementitious mortar beds and leveling compounds, fully cured concrete, precast concrete elements, heated mortar beds, cement (fiberglass-reinforced) backer board (follow manufacturers' installation recommendations), and masonry walls of cement blocks. Gypsum wall board, interior plaster, insulation boards should be used for interior wall applications only.

The following substrates require priming with Super-Weld and should be used only for interior applications: gypsum-based underlayments, aerated concrete, properly bonded existing ceramic tile, cement terrazzo, VCT, VAT, cutback adhesive residue, and sheet vinyl.

Surface Preparation: Areas to be tiled must be clean, structurally sound, and free of all loose, dirty, oily and scaly material, or any material that may affect proper bonding. Dust, dirt, oil or other contaminants must be thoroughly removed from the concrete by approved methods.

Concrete or plaster must be fully cured (28 days) and free of efflorescence, sealers or other contaminants that might interfere with adhesion. Contaminants must be removed before application of mortar. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be mechanically roughened to ensure a good bond. Prime very absorbing cement-based surfaces with Super-Weld prior to application.

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.

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

STP

REV: A, 12/1/2016



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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.

Cementitious backer boards are excellent substrates for tile setting applications and may be installed over plywood subfloors. Refer to the respective manufacturer's data sheet for installation and priming information.

Existing ceramic tile coverings must firmly bond to the substrate; any contaminations like grease and dirt have to be removed. Prime with Super-Weld™.

Resilient flooring or plastic laminates must be well bonded, clean and free of all contaminants. Roughen the surface by sanding or scarifying, rinse and allow to dry. Wood subfloors under flooring must be built to ceramic tile industry standards. Do not sand flooring containing asbestos! Prime with Super-Weld™.

Cutback adhesive must be completely removed from concrete surfaces for best mortar adhesion. Adhesive residue should be wet-scraped to the finished surface of the concrete, leaving only the minimal staining from the old adhesive. Use extreme caution when removing old adhesives as they may contain asbestos fibers. Do not sand or grind adhesive residue. Never use adhesive removers or solvents, as they may cause the adhesive to penetrate deeper into the concrete. Always do a bond test to determine if acceptable adhesion is achieved. Prime with Super-Weld™.

Mixing

1) For a 30 pound bag pour approximately 8.4 to 8.7 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) Mix until a lump free, smooth compound is achieved.

4) Allow mixture to slake (stand) for 3-5 minutes.

5) Then remix briefly before applying.

NOTE: Mixture should be stirred occasionally during use, do not retemper.

Application: Apply skim coat of mortar to the surface, using flat side of trowel. Comb mortar onto the wet skim coat with the notched edge of an appropriate sized trowel. Apply only as much mortar as can be covered with tiles during the open time. Check the open time by touching the mortar with your fingertip for wet transfer. Place tiles in the adhesive bed with a twist and slide motion and adjust to correct position. For large format tile and/or outdoor applications, back buttering is required.

Application Thickness: 1/16" to 1/2" (1.6 to 13 mm).

Application Temperature Range: 40°F (5°C) to 95°F (35°C).

Grouting: Allow for tiles to cure overnight and reach a firm set at room temperature (approximately 73°F (23°C) before grouting. Colder temperature will extend firm set time, warmer temperatures will shorten it.

TECHNICAL DATA Super-Lite (mixed with water)	
EXCEEDS ANSI A118.4 LATEX/POLYMER MODIFIED PORTLAND CEMENT MORTAR	
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*	≥ 45 MINUTES
POT LIFE*	1 HOUR
ADJUSTABILITY TIME*	10 MINUTES
TIME BEFORE GROUTING*	24 HOURS
SET TIME* REGULAR FOOT TRAFFIC USE	24 HOURS
*ALL PROPERTIES MAY VARY BASED ON JOB SITE CONDITIONS	
*HIGHER TEMPERATURES REDUCE POT LIFE AND SET TIMES; INVERSELY LOWER TEMPERATURES EXTEND POT LIFE AND SET TIMES	

Packaging

30 lb. (13.6 Kg.) multi-wall paper bag, available in white and grey.

Shelf Life

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

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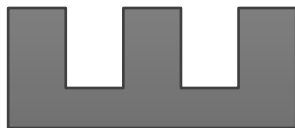
SUPER-TEK

COVERAGE & TROWEL SIZES

(DIAGRAMS NOT ACTUAL SIZE)



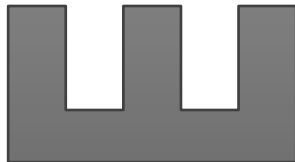
Ceramic, Quarry & Vitreous Tiles Up To 6" x 6" in Size: 1/4" x 1/4" x 1/4" Square-notched trowel. Coverage averages 102-112 sq. ft. (9.5-10.4 m²) per bag.



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 72-79 sq.ft. (6.7-7.3 m²) per bag.



Large pavers and natural stone tiles. Using Square-notched trowel 1/2" x 1/2" x 1/2" coverage averages 51-56 sq. ft. (4.7-5.2 m²) per bag.



Large pavers and natural stone tiles. Using Square-notched trowel 3/4" x 9/16" x 3/8" coverage averages 41-45 sq. ft. (3.8-4.1 m²) per bag.

A Word About Coverage

ANSI, the American National Standards Institute, along with TCNA, Tile Council of North America, set product standards and installation guidelines for quality tile installations.

For thinset, the coverage requirement is 80% average adhesive contact to the tile, except in showers or exteriors, where it requires 95% coverage. The 80% or 95% coverage must be sufficiently distributed to give full support of the tile. If 95% coverage is required, backbutter each tile with a bond coat; or select a notched trowel sized to facilitate the proper coverage, key the mortar into the substrate with the flat side of the trowel, and comb with the notched side of the trowel in one direction. Embed the tile in

the adhesive or mortar by beating in with a beating block to obtain maximum contact of bonding adhesive or mortar to the back of each tile, pushing in a direction perpendicular to the combed ridges, or other means to achieve complete coverage. The method used should produce maximum coverage with the corners and edges fully supported.

IMPORTANT! Periodically remove and check a tile to assure that proper coverage is being attained. Average contact area shall be not less than 80%, except on exterior or shower installations where contact area shall be 95%, when no less than three tiles are removed for inspection.

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!

Technical Assistance

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

e-mail: info@super-tek.com

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.

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