



Tile-Mate® Premium

THIN SET MORTAR

KEY FEATURES

- For interior and exterior use on vertical and horizontal surfaces
- Exceeds ANSI A118.1 when mixed with water
- Exceeds ANSI A118.4 and A118.11 when mixed with Bostik 425™ Multi-Purpose Acrylic Admixture

DESCRIPTION

Bostik Tile-Mate® Premium Thin Set Mortar is composed of select, proprietary chemicals, carefully graded aggregates and Portland cement. Bostik Tile-Mate® Premium Thin Set Mortar is pre-blended and ready to use. It provides superior bond strengths, excellent durability and outstanding workability. Bostik Tile-Mate® Premium Thin Set Mortar is for interior or exterior applications to set all types of ceramic, porcelain*, granite, slate, marble, limestone, and dimensional stone tiles. Use over properly prepared concrete; structurally sound, exterior grade plywood* (interior/dry use only); cementitious backer board; Bostik Ultra-Set® Advanced*, Bostik Black-Top™*, Bostik GoldPlus™* and existing, well-bonded vinyl composition tile (VCT)* or ceramic tile*.

*Mix Tile-Mate® Premium with Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Bostik Flex-A-Lastic® Admixture.

WHERE TO USE

Interior/exterior floors, walls and countertops.

DIRECTIONS FOR USE

Read and understand technical and safety data sheets completely before beginning installation. Follow applicable ANSI, NTCA and TCNA installation standards. Refer to www.bostik-us.com for the most recent product information and safety data sheet prior to installation.

SURFACE PREPARATION

All surfaces must be structurally sound, clean, free of dust, dirt, oil, grease, water, curing compounds, sealers, waxes or any contaminants that may inhibit proper bond. TCNA recommends roughing or scarifying glazed tile substrates.

NOTE: It is the user's responsibility to determine the condition and suitability of all surfaces before application.

MIXING

Using a slow speed mixer (<150rpm), mix 5 to 6 quarts of cool, clean potable water or Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Bostik Flex-A-Lastic® Admixture to 50 lbs. of Bostik Tile-Mate® Premium Thin Set Mortar. Mix to a creamy consistency. Do not re-temper by adding more liquid. No slake required.



APPLICATION

Apply a thin coat of Bostik Tile-Mate® Premium Thin Set Mortar with the flat edge of the trowel to achieve a good mechanical bond to the substrate. Comb mortar with the appropriate size notched trowel. If any evidence of skinning or setting occurs, re-comb with notched trowel. Apply mortar to an area no greater than can be covered with tiles in 20 to 30 minutes. Apply tile using a twisting motion into a fresh bed of mortar to ensure proper transfer (interior applications—minimum 80% coverage; exterior, wet, or plywood applications; 95% coverage). Temperatures must be between 50°F (10°C) - 100°F (37.8°C) during installation.

NOTE: If the appropriate coverage is not achieved, a larger trowel notch may be required. A finished mortar bed thickness of 3/32" to 1/8" is required.

Application Over Plywood: (Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Flex-A-Lastic® Admixture required.) Maximum joint spacing shall be 16" on center. Plywood shall be Underlayment Exterior

TYPICAL PHYSICAL PROPERTIES





Open Time at 70°F (21.1°C)	20-30 minutes
Adjustment Time at 70°F (21.1°C)	10 minutes
Pot Life at 70°F (21.1°C)	2 hours
Initial Set at 70°F (21.1°C)	6-8 hours
Final Set at 70°F (21.1°C)	8-10 hours

Exceeds ANSI A118.4 and A118.11 requirements

28 Day Shear Strengths: (Mixed with Bostik 425™ Multi-Purpose Acrylic Latex Admixture):	
Porcelain Tile	470 psi (ANSI REQ 200)
Glazed Wall Tile	515 psi (ANSI REQ 300)
Quarry Tile	400 psi
28 Day Compressive Strength	3300 psi

All numbers represent minimum test results.

RECOMMENDED TROWELS FOR MAXIMUM PERFORMANCE

Coverage 85-100 ft ²	Coverage 70-80 ft ²	Coverage 50-60 ft ²	Coverage 30-35 ft ²
			
3/16" X 5/32" V-Notch	1/4" X 1/4" Square-Notch	1/4" X 3/8" Square-Notch	1/2" X 1/2" Square-Notch

Trowel size is suggested to maximize mortar transfer/coverage. Periodically check coverage during installation. Uneven substrate may require the use of either a leveling/patching material, or larger notched trowel for proper mortar coverage.

Grade or C-C Plugged Exterior Grade plywood (or better). If the existing floor is less than 1" thick, glue and nail 15/32" or 1/2" APA Underlayment Exterior Grade or C-C Plugged Exterior Grade plywood to the floor.

Glue and nail using 5D or 6D (1½" or 2") cement coated screw shank nails 6" on center along the panel edges and a maximum of 8" on center each way throughout the panel. Allow 1/8" gap between underlayment sheet edges and all areas that abut walls, drains, posts, etc., these areas shall be filled with mortar when tiles are installed. Clean and rough sand the plywood. Due to the limitations of plywood as a substrate, Bostik Tile-Mate® Premium Thin Set Mortar is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

Application Over Existing Vinyl/VCT Flooring & Cutback: (Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Bostik Flex-A-Lastic® Admixture required.) Vinyl must be clean and well-bonded to substrate. Do not install over cushion-backed or perimeter bonded sheet vinyl. Remove any loose pieces of vinyl, VCT flooring, or cutback adhesive residue (dry areas only). Ensure the exposed substrate is suitable for application. Follow all Federal, state and local guidelines for proper removal. Refer to the Resilient Floor Covering Institute's "Recommended Work Practices for the Removal of Resilient Floor Coverings."

Application Over Existing Ceramic Tile: (Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Bostik Flex-A-Lastic® Admixture required.) Tile must be clean and well-bonded to substrate. Mechanically abrade with Carborundum disk, followed by a clean water wash is recommended. Installation must be thoroughly rinsed and dry before setting the new tile.

Application Over Waterproofing Membranes: Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Bostik Flex-A-Lastic® Admixture is required.

CLEAN-UP

Clean all tools immediately with soap and water. Do not allow material to dry on surface of tile.

CURING

Keep all foot traffic off the installation until tile is firmly set (approximately 12 hours). Set times are dependent upon temperature, humidity, porosity of substrate and tile size.

GROUTING

Depending on ambient, slab, and material temperatures, grouting can generally begin after 12 hours with most Bostik grouting systems. Allow 48 hours before grouting with any Bostik EzPoxy™ or any 100% solids epoxy grout. Allow 24-48 hours before grouting with Bostik pre-mixed grouts.

LIMITATIONS

- Do not use to install moisture sensitive stones (i.e. green marble) or resin-backed stone.
- If the substrate has deflection, an admixture is required. For substrates with a deflection of L/240 use Flex-A-Lastic®. For substrates with a deflection of L/360 use 425™ Multi-purpose Acrylic Latex Admixture.
- Natural stone such as marble, limestone and travertine may not tolerate deflection in excess of L/720. Refer to the Marble Institute of America Design Manual for details on specific types of stone.
- Do not apply over oriented strand board, particle board, masonite, luan, or similar unstable substrates.
- Do not use where hydrostatic pressure can occur.
- Application over cutback adhesive residue is limited to well bonded, on or above grade, dry areas only.
- Bostik Tile-Mate® Premium Thin Set Mortar must be mixed with

Bostik 425™ Multi-Purpose Acrylic Latex Admixture or Bostik Flex-A-Lastic® Admixture for exterior applications subject to freeze thaw, applications over plywood or when installing porcelain tiles

PACKAGING

50 lb. bag, white and gray formulations.

DANGER

CORROSIVE WHEN WET. MAY CAUSE BURNS. IRRITATING TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE CANCER. Do not breathe dust. Do not get in eyes, on skin or on clothing. Do not swallow. Handle with care. Use only in a well-ventilated area or wear a mask. Wear protective clothing including gloves during handling. Wash thoroughly after handling. Store bag in a cool, dry area. Do not reuse bag.

FIRST AID TREATMENT

Contains Portland Cement, Gypsum and Quartz Silica. If in eyes or on skin, rinse with water for at least 15 minutes. If on clothes, remove clothing. If breathed in, move person to fresh air. If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.

STORAGE/SHELF LIFE

Store in a clean, dry area, off the ground on a pallet, not affected by freezing or hot temperatures. Shelf life is one year from date of manufacturing.

VOC

0 g/L (as calculated per SCAQMD 1168).

LIMITED WARRANTY

Limited Warranty found at www.bostik-us.com or call 800.726.7845. TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. BOSTIK DISCLAIMS ANY LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES TO THE MAXIMUM EXTENT ALLOWED BY LAW. DISCLAIMERS OF IMPLIED WARRANTIES MAY NOT BE APPLICABLE TO CERTAIN CLASSES OF BUYERS AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. The Limited Warranty extends only to the original purchaser and is not transferable or assignable. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

BOSTIK HOTLINE™

Smart help™
1-800-726-7845

Bostik, Inc.

11320 W. Watertown Plank Road
Wauwatosa, WI 53226
www.bostik-us.com

This document supersedes all previously published literature.

