



ULTRA-PREMIUM POLYMER-MODIFIED THIN SET MORTAR

KEY FEATURES

- For interior and exterior use on vertical and horizontal surfaces
- Exceeds ANSI A118.4 and A118.11
- Excellent working characteristics

DESCRIPTION

Bostik Reflex® Ultra-Premium Polymer-Modified Thin Set Mortar is for interior or exterior installations to set all types of porcelain, saltillo, ceramic, glass, granite, slate, marble, limestone, thin porcelain tiles, large porcelain panels and dimensional stone tiles. Reflex® has excellent mixing and application properties. 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™; existing, well-bonded vinyl/VCT or ceramic tile and cutback adhesive residue (dry only).

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

Mix with water only. Using a slow speed mixer (<150 rpm), mix 5 to 6 quarts of clean, potable water to 50 lbs. of Bostik Reflex®. Mix to creamy consistency. Do not re-temper by adding more liquid. No slake required.

APPLICATION

Apply a thin coat of Bostik Reflex® with flat edge of trowel to achieve a good mechanical bond to substrate. Apply additional mortar with the appropriate size notched trowel. If any evidence of skinning or setting occurs, remove and reapply fresh mortar. Apply mortar to an area no greater than can be tiled in 60 minutes. Apply tile using a twisting motion into a fresh bed of mortar to ensure maximum



contact and bond. Periodically check back of tile to ensure proper transfer (interior applications—min. 80% coverage; exterior, wet, or plywood applications—min. 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. Back-butter each tile with mortar. A finished mortar bed thickness of 3/32" to 1/4" is required.

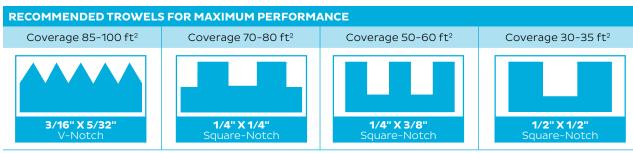
Application Over Plywood: Maximum joist spacing shall be 16" on center. Plywood shall be Underlayment Exterior Grade or C-C Plugged Exterior Grade plywood (or better). If the existing floor is less than 1" thick, glue and nail 15/32" or 1/2" APA Underlayment Exterior Grade or

TYPICAL PHYSICAL PROPERTIES	
Open Time at 70°F (21.1°C)	60-80 minutes
Initial Set at 70°F (21.1°C)	8-10 hours
Final Set at 70°F (21.1°C)	10-15 hours

Exceeds ANSI A118.4 and A118.11 requirements

28 Day Shear Strengths:	
Porcelain Tile	576 psi (ANSI REQ 200)
Glazed Wall Tile	560 psi (ANSI REQ 300)
Quarry Tile	425 psi
Quarry to Wood*	300 psi (ANSI REQ 150)
28 Day Compressive Strength	3600 psi

Wood failure (wood typically fails between 250 to 300 psi)
All numbers represent minimum test results.



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.

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 Reflex® 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: 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 only). Ensure the exposed substrate is suitable for application. Some flooring and cutback adhesive may contain asbestos. 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: Tile must be clean and well-bonded to substrate. Mechanically abrade with a Carborundum disk, followed by a clear water wash. Installation must be thoroughly rinsed and dry before setting the new tile.

CLEAN-UP

Clean all tools and equipment 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 vary based on 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. Allow 7 to 10 days before grouting porcelain tile panel or thin porcelain tile installations.

LIMITATIONS

- Do not use for installing moisture sensitive stones (i.e. green marble).
- Do not use in installations where deflection exceeds L/240 (1"in 20 feet).
- Do not apply over oriented strand board, particle board, masonite, luan, or similar unstable substrates.
- · Do not use where hydrostatic pressure can occur.
- For marble and limestone, please refer to the Marble Institute of America's deflection recommendations.
- Application over cutback adhesive residue is limited to well bonded, dry areas only.
- Due to the limitations of plywood as a substrate, Bostik Reflex® is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

PACKAGING

50 lb. bag, white and gray formulations.

DANGER

CORROSIVE WHEN WET. MAY CAUSE BURNS. IRRITATING TO SKIN, EYES AND RESPIRATORYTRACT. 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 in unopened bags.

VOC

0 g/L (as calculated per SCAQMD 1168)

LIMITED WARRANTY

www.bostik-us.com

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