



Single-Flex®

Premium Multi-Purpose Latex-Modified Thin Set Mortar

**For Interior and Exterior
Use on Vertical and
Horizontal Surfaces**

**Exceeds ANSI A118.4 and
A118.11 Requirements**

**Excellent Working
Characteristics**

Extremely Flexible

Extremely Durable

**For All Tile Absorption
Rates (from Porcelain
to Saltillo)**

Description

Bostik Single-Flex® Premium Multi-Purpose Latex-Modified Thin Set Mortar is for interior or exterior installations to set all types of ceramic, porcelain, granite, slate, marble, limestone, and dimension stone as well as glass 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™ and Bostik GoldPlus™; and existing, well-bonded vinyl/VCT or ceramic tile.

Directions For Use

Read and understand data sheet completely before beginning installation. Follow applicable ANSI, NTCA and TCNA installation standards.

Surface Preparation

Using a slow speed mixer (<150 rpm), mix 5 to 5 1/2 quarts of clean, potable water to 50 lbs. of Bostik Single-Flex. Mix to creamy consistency. Allow mixture to stand 15 minutes, and re-mix prior to application. Do not re-temper by adding more water. Mix with water only.

Mixing

Using a slow speed mixer (<150 rpm), mix 5 to 5-1/2 quarts of clean, potable water to 50 pounds of Single-Flex. Mix to creamy consistency. Allow mixture to stand 15 minutes, and remix prior to application. Do not re-temper by adding more water. Mix with water only.

Application

Apply a thin coat of Bostik Single-Flex with flat edge of trowel to achieve a good mechanical bond to substrate. Comb additional mortar

with the appropriate size notched trowel. If any evidence of skinning or setting occurs, re-comb mortar with notched trowel. Apply mortar to an area no greater than can be tiled in 20 to 30 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). A finished mortar bed thickness of 3/32" to 1/8" 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 C-C Plugged Exterior Grade plywood to the floor. Glue and nail using 5D or 6D (1-1/2" 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



**BLOCKADE™
Antimicrobial
Protection**

Bostik
Green Products
Initiative

Typical Physical Properties

Open Time at 70°F-75°F	70 minutes
Adjustability Time at 70°F-75°F	30 minutes
Initial Set at 70°F-75°F	9 hours
Final Set at 70°F-75°F	12 hours
Coverage	70-80 ft ² @ 1/8" bed thickness
Exceeds ANSI A118.4 and A118.11 requirements	
Shear Strength, 28 Days	
Porcelain Tile	450 psi (ANSI REQ 200)
Glazed Wall Tile	450 psi (ANSI REQ 300)
Quarry Tile	440 psi
Quarry to Wood*	250 psi (ANSI REQ 150)
28 Day Compressive Strength	3450 psi
All numbers represent minimum test results. *Wood failure (wood typically fails between 250 to 300 psi)	

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 Single-Flex is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

Application over Existing Vinyl/VCT Flooring: 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 or flooring. Ensure the exposed substrate is suitable for application.

Application over Existing Ceramic Tile: Tile must be clean and well-bonded to substrate. Mechanical abrasion with a Carborundum disk, followed by a clear water wash is recommended. Installation must be thoroughly rinsed and dry before setting the new tile.

Curing

Keep all foot traffic off the installation until tile is firmly set (approximately 12 hours). Set times vary based on temperature and humidity.

Clean Up

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

Grouting

Depending on ambient, slab, and material temperatures, grouting can generally begin after 12 hours with any Bostik grouting system. Allow 48 hours before grouting with Bostik EzPoxy™ or any 100% solids epoxy grout. Allow 24 hours before grouting with Bostik TruColor™ Pre-Mixed Grout or any urethane-based grout.

Limitations

- Do not use for installing moisture sensitive stones (i.e. green marble) or resin backed stone.
- Do not use in installations where deflection exceeds L/360 (1" in 30 feet).
- Do not apply over oriented strand board, particle board, masonite, luaun, or similar unstable substrates.
- Do not use where hydrostatic pressure can occur.
- Due to the limitations of plywood as a substrate, Bostik Single-Flex is not intended for use on plywood in exterior or wet interior applications, or in areas subject to heavy/commercial traffic.
- For marble and limestone, please refer to the Marble Institute of America's deflection requirements.

Packaging

50 lb. bags, in gray or white formulations.

DANGER: Corrosive when wet. Eye, skin and respiratory tract irritant. Suspect cancer hazard—contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

PRECAUTIONS: Avoid breathing dust. Avoid contact with eyes and skin. Keep container closed. Use only with adequate ventilation. Wear protective clothing during handling. Wash thoroughly after handling.

FIRST AID: If inhaled, remove to fresh air. In case of contact, immediately flush eyes with water for at least 15 minutes and wash skin with soap and water. Call a physician if irritation persists.

SEE MATERIAL SAFETY DATA SHEET. KEEP OUT OF THE REACH OF CHILDREN.

Limited Warranty

The Limited Warranty for this product can be found at www.Bostik-US.com/resource-center/warranties or by calling 1-800-726-7845 (choose option 2, then option 2 again). 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, Inc.

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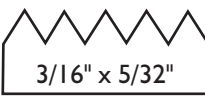
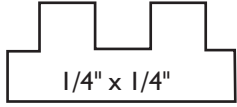
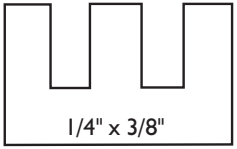
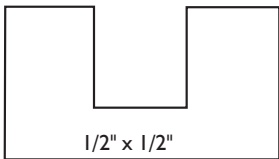
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DURABOND®

This document supersedes all previously published literature.

T24-07-31-12

Recommended Trowels For Maximum Performance

Ceramic Mosaics Mounted Ceramics Coverage 85-100 ft ²	4" x 4" and 4" x 8" Ceramic & Pavers Coverage 70-80 ft ²	6" x 6" and 8" x 8" Quarry Tile 12" x 12" Ceramic Tile Coverage 50-60 ft ²	8" x 8" and 12" x 12" Lugged back & Mexican Paver Tile Coverage 30-35 ft ²
			

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.

Bostik

Stronger Bonds, Better Life