

SINGLE-FLEX™ F.S.

Premium Latex-Modified Fast-Setting Thin Set Mortar

PRODUCT DESCRIPTION

Hydroment Single-Flex F. S.™ (Fast Set) Mortar is a premium, fast setting, latex-modified, flexible thin set mortar system. It utilizes an advanced formulation of flexible, non-re-emulsifying polymers and combines fast setting characteristics with high early strength gain so grouting can begin within 2 to 4 hours. Mix Single-Flex F.S. with clean, cool drinkable tap water or, for even greater performance, mix using Hydroment 425 Multi-Purpose Acrylic Latex Admixture™.

FEATURES & BENEFITS

- Set and Grout in Same Day
- Single-Component Latex-Modified
- Exceeds ANSI A118.4 and A118.11 Requirements
- Freeze/Thaw Stable
- For all tile absorption rates (from porcelain to saltillo)
- For Interior and Exterior Installations
- For Vertical and Horizontal Installations
- Excellent for commercial installations with limited down times

PRODUCT USES

Single-Flex F. S. is for interior or exterior installations to set all types of porcelain, saltillo, ceramic, granite, slate, marble, limestone and dimension stone tiles. Use over properly prepared concrete; structurally- sound, exterior grade plywood (interior/dry use only); cementitious backer board; Ultra-Set® Advanced; Hydroment Gold™; Hydroment Black-Top 90210™; 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

All surfaces must be clean, dry and smooth; free of voids, projections, loose materials, oil, grease, sealers, curing compounds, waxes and all other surface contaminants that may inhibit proper bond.

TYPICAL PHYSICAL PROPERTIES

Open Time (@70°F-75°F)	70 minutes
Adjustability (@ 70°F-75°F)	30 minutes
Initial Set (@ 70°F-75°F)	9 hours
Final Set at (@ 70°F-75°F)	12 hours
Coverage	70-80ft ² @ 1/8" bed thickness

Exceeds ANSI A118.4 and A118.11 requirements

Shear Strength, 28 days (with Admixture)

Porcelain Tile	575 psi (ANSI REQ 200)
Glazed Wall Tile	560 psi (ANSI REQ 300)
Quarry Tile	450 psi
Quarry to Wood*	260 psi (ANSI REQ 100)

28 Day Compressive Strength 3166 psi

Shear Strength, 28 Days (with water)

Porcelain Tile	490 psi (ANSI REQ 200)
Glazed Wall Tile	500 psi (ANSI REQ 300)
Quarry Tile	400 psi
Quarry to Wood*	250 psi (ANSI REQ 100)

28 Day Compressive Strength 3100 psi

All numbers represent minimum test results.

* Wood failure (wood typically fails between 250 to 300 psi)

MIXING

Using a slow speed mixer (< 150 rpm), mix 5 to 6 quarts of clean, potable water or 425 Multi-Purpose Acrylic Latex Admixture to 50 pounds of Single-Flex F.S. Mix to creamy consistency. Do not re-temper by adding more liquid.

APPLICATION

Apply a thin coat of Single-Flex F.S. with the flat edge of trowel to achieve a good mechanical bond to the 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 10 to 15 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--minimum 80% coverage; exterior, wet, or plywood applications--minimum 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 1 5/32" 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 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, Single-Flex F.S. 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 areas only). 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 2-4 hours). Set times are dependent upon temperature and humidity.

GROUTING

Depending on ambient, slab, and material temperatures, grouting can generally begin after 2-4 hours with any quality Hydroment 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.

CLEAN UP

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

PACKAGING

50 lb. (22.7 kg) Bags • 50 Bags/pallet
Available in Gray or White formulations

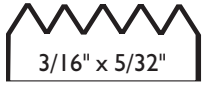
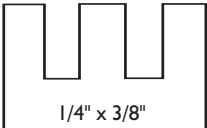
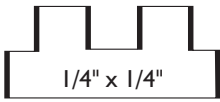
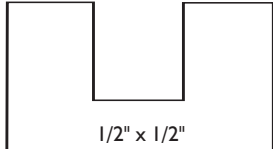
STORAGE/SHELF LIFE

Store in a clean, dry area at temperatures between 34°F and 100°F. Shelf life is one year from date of manufacturing.

LIMITATIONS

- Do not use to install moisture sensitive stones (e.g., green marble)
- Do not use in installations where deflection exceeds L/240 (1" in 20ft) when mixed with 425 Multi-Purpose Acrylic Latex Admixture or L/360 when mixed with water
- Do not apply over oriented strand board, particle board, masonite, luaun, 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.
- Cutback adhesive residue should be completely removed by shot blasting in Heavy or Extra Heavy service requirements as defined by TCNA guidelines for service requirements.

RECOMMENDED TROWELS FOR MAXIMUM PERFORMANCE

<p style="text-align: center;">Ceramic mosaics Mounted ceramics Coverage 85-100 ft²</p> <div style="text-align: center;">  <p>3/16" x 5/32"</p> </div> <p style="text-align: center;">6" x 6", 8" x 8" & 12" x 12" Ceramic Quarry tile Coverage 50-60 ft²</p> <div style="text-align: center;">  <p>1/4" x 3/8"</p> </div>	<p style="text-align: center;">4" x 4" & 4" x 8" Ceramic & pavers Coverage 70-80 ft²</p> <div style="text-align: center;">  <p>1/4" x 1/4"</p> </div> <p style="text-align: center;">8" x 8" & 12" x 12" Lugged back & Mexican paver tile Coverage 35-40 ft²</p> <div style="text-align: center;">  <p>1/2" x 1/2"</p> </div>
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Coverages shown are approximate and are given for estimating purposes only. Actual jobsite coverages will vary according to trowel size, tile size and thickness, job conditions, and setting practices.

LIMITED WARRANTY

Bostik, Inc. warrants that the product conforms with Bostik's written specifications and is free from manufacturing defects. A PURCHASER'S SOLE REMEDY FOR NONCOMPLIANCE WITH THIS WARRANTY SHALL BE THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE PURCHASE PRICE. Purchasers may address their warranty claims to Bostik, Inc., 211 Boston St., Middleton, MA 01949, Attn: Customer Service or call Bostik at 1-800-726-7845. TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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