

hydroment[®]

PRODUCT INFORMATION

HYDROMENT[®] REFLEX[™] Ultra-Premium Latex-Modified Thin Set Mortar For Interior and Exterior use on Vertical and Horizontal Surfaces

PRODUCT DESCRIPTION

ReFlex[™] is a single-component, ultra-premium latex-modified mortar that has been developed in response to the need for an extremely tacky, flexible, and durable installation system. ReFlex is designed to continually exceed the challenges presented by the variety of absorption rates in today's highly specialized tiles (e.g.: from porcelain to saltillo) and difficult to bond to and deflecting/flexing substrates, such as, concrete, plywood, cement backer board, cutback adhesive residue (dry only), ceramic/vinyl/VCT tile, as well as, flexing/deflecting substrates (up to L/240).

FEATURES & BENEFITS

- Extremely Tacky Consistency
- Extremely Flexible (deflection up to L/240)
- Extremely Durable
- Single-Component Latex-Modified (water-add only)
- 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

PRODUCT USES

ReFlex Mortar 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[®]; and existing, well-bonded vinyl/VCT or ceramic tile.

INSTALLATION

DIRECTIONS FOR USE: Read and understand data sheet completely before beginning installation. Follow applicable ANSI and TCA installation standards.

TYPICAL PHYSICAL PROPERTIES

| | |
|-------------------------|-------------|
| • Open Time (@ 70° F) | >70 Minutes |
| • Adjustability Time: | 40 Minutes |
| • Pot Life (@ 70° F) | 1-2 Hours |
| • Initial Set (@ 70° F) | 8-10 Hours |
| • Final Set (@ 70° F) | 10-15 Hours |

Exceeds ANSI A118.4 and A118.11 requirements

| | |
|------------------------|------------------------|
| Shear Strength, 7 Days | |
| Ceramic Mosaic Tile | 576 psi (ANSI REQ 200) |
| Glazed Wall Tile | 403 psi (ANSI REQ 300) |
| Quarry to Wood* | 300 psi (ANSI REQ 100) |

| | |
|-------------------------|------------------------|
| Shear Strength, 28 Days | |
| Ceramic Mosaic Tile | 623 psi (ANSI REQ 200) |
| Glazed Wall Tile | 557 psi (ANSI REQ 300) |
| Quarry to Wood* | 300 psi (ANSI REQ 150) |

All numbers represent minimum test results.

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

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.

MIXING: Using a slow speed mixer (< 150 rpm), mix 5 to 6 quarts of clean, potable water to 50 pounds of ReFlex. 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.

APPLICATION: Apply a thin coat of ReFlex 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 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--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, 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 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.

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 are dependent upon temperature and humidity.

GROUTING: Depending on ambient, slab, and material temperatures, grouting can generally begin after 12 hours with any quality Hydroment grouting system. Allow 48 hours before grouting with any 100% solids epoxy grout.

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 (i.e green marble)
- Do not use in installations where deflection exceeds L/240 (1" in 20ft)
- 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.
- Application over cutback adhesive residue is limited to well bonded, dry areas only.

MANUFACTURING

Bostik World Headquarters
Middleton, MA 01949
(800) 7-BOSTIK/(800) 726-7845

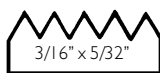
PLANT LOCATIONS

Temecula, CA 92590
Twinsburg, OH 44087
Conyers, GA 30207

RECOMMENDED NOTCHED TROWELS FOR MAXIMUM PERFORMANCE

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

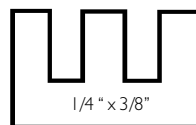
Ceramic mosaics
Mounted ceramics
Coverage 85-100 sq. ft.



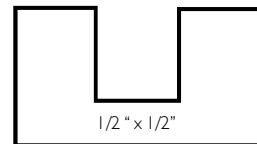
4" x 4" & 4" x 8"
Ceramic & pavers
Coverage 70-80 sq. ft.



6" x 6", 8" x 8" & 12" x 12"
Ceramic Quarry tile
Coverage 50-60 sq. ft.



8" x 8" & 12" x 12"
Lugged back & Mexican paver tile
Coverage 35-40 sq. ft.



LIMITED WARRANTY

All statements, technical information and recommendations set forth herein are based on tests which Bostik believes to be reliable. However, Bostik does not guarantee their accuracy or completeness. The buyer should conduct its own tests of this product before use to determine proper preparation technique and suitability for proposed application. Any sale of this product shall be on terms and conditions set forth on Bostik's order acknowledgement. Bostik warrants that the product conforms with Bostik's written specifications, and is free from defects. BOSTIK DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S SOLE REMEDY FOR NONCOMPLIANCE WITH THIS WARRANTY SHALL BE FOR THE REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. IN NO CASE WILL BOSTIK BE LIABLE FOR DIRECT, CONSEQUENTIAL, ECONOMIC OR OTHER DAMAGES.