

### STONEWALL™ HIGH PERFORMANCE-NON SAG MORTAR

For Interior and Exterior Large Bodied Tile and Stone Applications

#### PRODUCT DESCRIPTION

StoneWall is for interior or exterior, commercial or residential installations to set all types of porcelain, Saltillo, ceramic, granite, slate, glass, marble, limestone, and dimension stone tiles. StoneWall is formulated to prevent large bodied ceramic, porcelain and stone tiles from slipping in vertical applications. StoneWall is also suitable for installing floor tiles.

Use over properly prepared concrete; structurally sound, exterior grade plywood (interior/dry use only); cementitious backer board; Ultra-Set® Advanced; Black Top; Hydroment Gold; existing, well-bonded vinyl/VCT or ceramic tile; and cutback adhesive residue (dry only).

#### FEATURES & BENEFITS

- Excellent for Large Bodied Tile and Stone in Vertical Applications.
- Exceeds ALL requirements of ANSI A118.1, A118.4 and A118.11.
- Excellent for use on all approved floors and walls.
- For interior and exterior jobs.
- High Compressive Strengths for Extra Heavy Service.

#### DIRECTIONS FOR USE

Read and understand data sheet completely before beginning installation. Follow applicable ANSI 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.

#### MIXING

Using a slow speed mixer (< 150 rpm), mix 6 quarts of clean, potable water to 50 lbs. StoneWall Mortar. Mix to a creamy consistency. Allow the mixture to stand 15 minutes, and re-mix prior to application. Note: For installation of large bodied wall tiles the product should be mixed to a stiff but creamy consistency.

#### TYPICAL PHYSICAL PROPERTIES

Open Time (@ 70°F)	>70 minutes
Adjustability Time:	40 minutes
Pot Life (@ 70°F)	4 hours
Initial Set (@ 70°F)	8-10 hours
Final Set (@ 70°F)	10-15 hours
Exceeds ANSI A118.4 and A118.11 requirements	
24 Hour Compressive	380 psi
28 Day Compressive	3403 psi
28 Day Flexural	1100 psi
Open Time 30 minutes	
<b>Shear Strength, 28 Days</b>	
Porcelain Tile	575 psi (ANSI REQ 200)
Quarry to Wood*	300 psi (ANSI REQ 150)
All numbers represent minimum test results.	
*Wood failure (wood typically fails between 250 to 300 psi)	

Excess water or a "loose" mix may cause tiles to slip. Do not re-temper by adding more water. Mix with water only.

#### APPLICATION

Apply a thin coat of StoneWall 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 the mortar with the 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 the back of the 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 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, StoneWall 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.

## CURING

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

## GROUTING

Depending on ambient, slab, and material temperatures, grouting can generally begin after 12-16 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 the surface of the tile.

## STORAGE/SHELF LIFE

Store in a clean, dry area not affected by freezing or hot temperatures. Shelf life is one year from date of manufacturing in unopened bags.

## PACKAGING

50 lb. (22.7kg) bags, 48 bags/Pallet (white formula only).

## LIMITATIONS

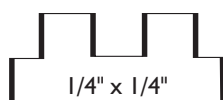
- Do not use for installing moisture sensitive stones (e.g., green marble) or resin-backed stone.
- Do not use in installations where deflection exceeds L/360 (1" in 30 feet).
- Do not apply over oriented strand board, particleboard, Masonite, luaun, or similar unstable substrates.
- Do not use where hydrostatic pressure can occur.
- Natural stone such as marble, limestone & 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.
- Application over cutback adhesive residue is limited to well bonded, dry areas only.
- Due to the limitations of plywood as a substrate, StoneWall is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

## RECOMMENDED TROWELS FOR MAXIMUM PERFORMANCE

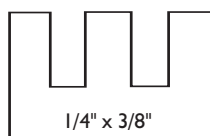
Ceramic mosaics  
Mounted ceramics  
Coverage 85-100 ft<sup>2</sup>



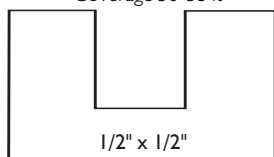
4" x 4" & 4" x 8"  
Ceramic & pavers  
Coverage 70-80 ft<sup>2</sup>



6" x 6", 8" x 8" & 12" x 12"  
Ceramic Quarry tile  
Coverage 50-60 ft<sup>2</sup>



8" x 8" & 12" x 12"  
Lugged back & Mexican paver tile  
Coverage 30-35 ft<sup>2</sup>



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.



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## PLANT LOCATIONS

Temecula, CA 92590  
Conyers, GA 30207  
Paulsboro, NJ 08066

## 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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