



Large Format Floor™

POLYMER-MODIFIED MORTAR FOR LARGE FORMAT TILE

TECHNICAL DATA SHEET 04/20/2024

SMART ADVANTAGES

- Use to set large format tile
- For interior and exterior use on horizontal and vertical surfaces
- Meets ANSI A118.4 and A118.11 requirements

DESCRIPTION

Bostik Large Format Floor™ is a polymer-modified mortar designed for floor installations of large format ceramic tiles, porcelain tiles, natural stone, granite, slate and marble. Use over properly prepared, structurally sound-concrete, exterior grade plywood (interior/dry use only); cementitious backer board and existing ceramic tile.

WHERE TO USE

Interior/exterior floors and walls.*

NOTE: For installations requiring sag resistance use Bostik Big Tile & Stone™ and for superior sag resistance use Bostik StoneWall™.

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.com/us 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 Large Format Floor™. Mix to creamy consistency. Do not re-temper by adding more liquid. No slake required.

APPLICATION

Apply a thin coat of Large Format Floor™ 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 re-apply fresh mortar. Apply mortar to an area no greater than can be tiled in 30 to 40 minutes. Apply tile using a twisting motion into a fresh bed of mortar to ensure maximum contact and bond. For large and heavy tile you may also place the tiles at a right angle to the trowel ridges, then move tile back and forth (the width of the trowel space between the ridges). Then use a beating block and mallet to ensure proper placement. Periodically check back of tile to ensure proper transfer (interior applications — minimum 80% coverage; exterior, wet, or plywood applications — minimum 95% coverage).

*For vertical applications, tile size is limited to 9 sq ft.



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. It may be necessary to back-butter the tile to meet these requirements. For ceramic tiles over 15" in any dimension, back-butter with mortar. A finished mortar bed thickness of 3/32" to 1/2" 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

TYPICAL PHYSICAL PROPERTIES

Open Time at 700F (21.1°C)	30-40 minutes
Adjustment Time at 700F (21.1°C)	15-20 minutes
Pot Life at 700F (21.1°C)	2.5 hours
Initial Set at 700F (21.1°C)	8-10 hours
Final Set at 700F (21.1°C)	10-15 hours
Exceeds ANSI A118.4 and A118.11 requirements	
28 Day Shear Strengths:	
Porcelain Tile	400 psi (ANSI REQ 200)
Glazed Wall Tile	325 psi (ANSI REQ 300)
Quarry Tile to Wood Tile*	300 psi (ANSI REQ 150)
*Wood failure (wood typically fails between 250 to 300 psi) All numbers represent minimum test results.	

This supersedes and replaces in its entirety all previously published versions of this document. B186166

RECOMMENDED TROWELS FOR MAXIMUM PERFORMANCE

Coverage 50-60 ft ²	Coverage 30-35 ft ²	Coverage 30-35 ft ²	Coverage 30-35 ft ²
1/4" X 3/8" Square-Notch	1/2" X 1/2" Square-Notch	Euro Notch	3/4" X 9/16" X 3/8" Slanted Layover

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.

between underlayment sheet edges and all areas that abut walls, drains, posts, etc. Clean and rough sand the plywood. Due to the limitations of plywood as a substrate, Large Format Floor™ is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

Application Over Existing Ceramic Tile: Tile must be clean and well-bonded to substrate. Mechanical abrasion with 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 immediately with soap and water.

CURING

Keep all foot traffic off the installation until tile is firmly set (roughly 12 hours). Set times vary based on temperature, humidity, porosity of substrate and tile size.

GROUTING

Depending ambient on 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™ EzClean™ or any 100% solids epoxy grout. Allow 24-48 hours before grouting with Bostik pre-mixed grouts.

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, luan, stripwood floors, or similar unstable or frozen substrates.
- Do not use where hydrostatic pressure can occur.
- Due to the limitations of plywood as a substrate, Large Format Floor™ is not intended for use on plywood in exterior or wet interior applications, or in areas subject to heavy/commercial traffic.
- Do not use over cushion back or perimeter bonded vinyl flooring. Not recommended for use in harsh freeze/thaw environments.

PACKAGING

50 lb. bag, gray and white formulation.

DANGER

CORROSIVE WHEN WET. MAY CAUSE BURNS. IRRITATING TO SKIN, EYES AND RESPIRATORY TRACT. 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.

KEEP OUT OF REACH OF CHILDREN

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.

SEE SAFETY DATA SHEET

Chemical Emergency: 800-424-9300 (USA), 703-527-3887 (International)

Medical Emergency: 866-767-5089

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

Limited Warranty found at www.bostik.com/us. 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.

LIMITED WARRANTY found at www.bostik.com/us. 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.

11320 W. Watertown Plank Road
Wauwatosa, WI 53226
www.bostik.com/us

BOSTIK HOTLINE

Smart help 1-800-726-7845



Legal Disclaimer: All information contained herein is believed to be accurate as of the date of publication, is provided "as-is" and is subject to change without notice. This is not a warranty, an agreement, or substitute for expert or professional advice. Bostik Inc. expressly disclaims and assumes no liability for the use of the products or reliance on this information. It is the sole responsibility of the user to determine the suitability of any products for user's application(s). NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED (INCLUDING SUITABILITY FOR USE IN ANY MEDICAL DEVICE OR MEDICAL APPLICATION), IS MADE CONCERNING THE PRODUCTS OR THE INFORMATION PROVIDED HEREIN. The information provided relates only to the specific products designated herein and may not be valid where such products are used in combination with other materials or in any process. The performance of the product, its shelf life, and application characteristics depends on many variables, and changes in these variables can impact product performance. You are responsible to test the suitability of any product in advance for any intended use or application and before commercialization. Nothing herein shall be construed as a license for the use of any product in a manner that might infringe any patent and it should not be construed as an inducement to infringe any patent. Please carefully review the Safety Data Sheet for the product.