



Floor Mortar



Tile Perfect™ Floor Mortar is designed to bond floor tile. Mixed with water, it meets ANSI A118.1 specifications. Mixed with Tile Perfect Mortar Additive, meets ANSI A118.4 and ANSI A118.11 specifications.

- For installing over cement surfaces
- Floors only
- Mix with Mortar Additive for improved flexibility and adhesion
- Additive allows bonding to plywood

Warranty

For details about our limited warranties, see your sales associate or www.hbfuller-cp.com/tp.

Suitable Substrates

- Gypsum wallboard
- Water resistant gypsum wallboard (greenboard)
- Cementitious backer units (CBU)
- Glass mat backer board
- Adhesive residue (except tacky or pressure-sensitive adhesive)*
- Cured concrete, cured mortar beds, brick and masonry (if exterior*)
- APA Grade Trademarked Exposure 1 Plywood [underlayment grade or better, two layers, 1-1/8" (28 mm) total minimum thickness, interior floors only]*
- Existing ceramic tile and natural stone, provided existing flooring is well-bonded to an approved substrate.*
- Vinyl composition tile, asphalt tile, linoleum or non-cushioned vinyl sheet goods* (provided existing flooring is well-bonded to an approved substrate)

*Requires use with Tile Perfect Mortar Additive

Product Specifications

Description	ANSI Requirement	Typical Results
28 Day Shear Strength ANSI 118.4 Glazed Wall Tile	> 250 psi (1.7 MPa)	250-300 psi (1.7-2.1 MPa)
Impervious Ceramic Tile (Porcelain)	> 150 psi (1.0 MPa)	150-200 psi (1.0-1.4 MPa)
Quarry Tile	> 100 psi (0.7 MPa)	150-225 psi (1.0-1.5 MPa)
Sag on Vertical Surfaces	≤ 1/16" (1.6 mm)	0-1/16" (0-1.6 mm)
Open Time at Room Temperature	≥ 50 minutes	50 minutes
Adjustability at Room Temperature	≥ 30 minutes	30 minutes
Final Set	9-15 hours	9-15 hours
Description	ANSI Requirement	Typical Results when mixed with Tile Perfect Mortar Additive
28 Day Shear Strength ANSI 118.4 Glazed Wall Tile	> 300 psi (2.1 MPa)	500-600 psi** (3.4-4.1 MPa)
Impervious Ceramic Tile (Porcelain)	> 200 psi (1.4 MPa)	225-300 psi (1.5-2.1 MPa)
Quarry Tile	> 150 psi (1.0 MPa)	350-450 psi (2.4-3.1 MPa)
Sag on Vertical Surfaces	≤ 1/16" (1.6 mm)	1/16" (1.6 mm)
Open Time at Room Temperature	≥ 50 minutes	60-80minutes
Adjustability at Room Temperature	≥ 30 minutes	30-40 minutes
Final Set	9-15 hours	9-15 hours

** ANSI-specified glazed wall tile failed at 600 psi (4.1 MPa)

Description	
Physical State	Dry powder
Color	Available in gray
Pot Life	2 to 3 hours
Initial Cure [at 72°F (22°C)]	16 to 24 hours
Final Cure	21 days
Foot Traffic Rating (ASTM C627)	Residential to Extra Heavy Commercial (depending on substrate)

Limitations

Not for installing green marble or other moisture-sensitive stone tile; use a suitable marble mortar. For non-green marble tile applications, use white thin set mortars. Not for use over rubber, strip wood floors, oriented strand board, particle board or lauan plywood. Do not apply over single-layer wood floors. For CDX plywood, use Tile Perfect Glass Tile Mortar. Temperature of area to be tiled must remain above 50°F (10°C) for 72 hours. Certain natural stone tiles may be affected by mortar shadowing or staining. Test a small area prior to use to determine suitability.

Packaging

50 lbs (22.68 kg) moisture-resistant bag

Coverage

Coverage will vary with condition of substrate. Required trowel size will vary with the tile size, type and substrate uniformity. Select the trowel size that will ensure 100% coverage. Figures below are presented only as guidelines.

Trowel Size	Approximate Coverage Per 40 lbs. (18.14 kg)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square notch trowel	80-90 sq. ft. (7.4-8.4 m ²)
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) square notch trowel	50-60 sq. ft. (4.65-5.6 m ²)

Surface Preparation

All substrates must be dry, structurally sound with maximum deflection per industry standards of L/360 for ceramic tile installations and L/720 for natural stone installations under all live and dead loads; and be free from oil, grease, dust, paint, sealers or concrete curing compounds. All contaminants should be removed prior to installation of tile. Surface protrusions and tile glazes shall be removed by sanding, scraping or scarifying. After preparation, remove all dust by vacuuming. Note: Vinyl asbestos tile or any substrate containing asbestos shall not be sanded, scored or scarified because of the potential health hazard of breathing dust. Any substrate containing asbestos must be handled in accordance with existing EPA regulations. Contact your local EPA office.

Notes: Expansion joints must be provided in the tile work over all construction, control and expansion joints in the backing and where backing materials change. Follow ANSI A108.01 Section 3.7 Requirements for Expansion Joints.

NON-MODIFIED MORTAR

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Maximum variations in all substrates must not exceed 1/4" in 10 ft. (6 mm in 3 m) or 1/16" in 1 ft. (1.5 mm in 0.3 m) from the required plane. For non-level, interior surfaces use Tile Perfect Self Leveling Underlayment.

Mixing Instructions

Mixing—With Water: For best results, maintain all tiling materials, substrates, room and adhesives at 50°-70°F (10-21°C) for 24 hours before and 48 hours after installation. Avoid breathing dust and contact with eyes and skin. Avoid using high speed mixing, not to exceed 300 rpm, to prevent entraining air. Add powder to liquid for ease of mixing.

In a clean mixing container, slowly add product to 4.5 to 6 quarts (4.26-5.68 L) clean, cool water. Mix material for 2-5 minutes to a thick creamy consistency, then allow the mortar to stand for 10 minutes. Remix for 1-2 minutes and apply.

Mixing—With Latex Additive: For improved performance in any application, H.B. Fuller Construction Products Inc. recommends the use of Tile Perfect Mortar Additive in place of water. For installations subjected to freeze/thaw conditions; bonding over most non-cementitious substrates; installation of porcelain tile; or any ANSI A118.4 or ANSI A118.11 latex mortar project, the use of Tile Perfect Mortar Additive is required.

When using a mortar additive, always follow label directions for detailed mixing and substrate recommendations.

Application Instructions

Apply mortar using flat side of trowel to promote better substrate contact, then comb in one direction with the notched side of the trowel. Spread only an area that can be tiled while surface is still tacky (typically 20-30 minutes). Press tiles into setting bed, then push in a direction perpendicular to the notched trowel ridges to achieve optimum coverage. Apply mortar in a heavy enough layer so that complete contact (no voids) between mortar and tile is accomplished when tile is positioned. It may be necessary to "back-butter" large tiles to achieve complete coverage and firm support. Periodically remove and check a tile to assure proper coverage. Keep a minimum of 2/3 of the joint depth between tiles for grouting.

Open time and tile hand adjustability may vary with job site conditions. Stir occasionally during use to maintain the smooth, creamy consistency of the product. **Do not add additional water.**

Drying Time

Grouting may be accomplished when tiles are held firmly in place, typically 16 to 24 hours after installation is completed. No traffic is permitted over the tiles prior to grouting. Cold temperatures or high humidity may extend curing time. Unglazed tiles may require sealing prior to grouting so discoloration will not occur. The use of Tile Perfect grout products are highly recommended. Tile Perfect Grouts are available in a wide array of designer colors and when mixed with Grout Boost® Stain Resistant Grout Additive, these products provide stain resistance, high performance and ease of use.

Clean Up

Clean tools, hands, and excess materials from face of tile, while mortar is still fresh, with warm soapy water.

Cautions

CAUTION! EYE, SKIN AND RESPIRATORY IRRITANT. Avoid breathing dust. Avoid contact with eyes, skin and clothing. If in eyes, rinse with water 20 minutes. If on skin, rinse well with water. For additional information, see Material Data Safety Sheet (MSDS) for this product. WARNING! This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. KEEP OUT OF REACH OF CHILDREN. For Medical Emergency Information, call 1-888-853-1758.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Tile Perfect™ brand product(s) under normal environmental and working conditions. Because each project is different, H.B. Fuller Construction Products Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

Storage/Shelf Life

Store in a cool, dry area away from direct sunlight. Do not store open containers. Maximum shelf life is 1 year from date of manufacture in unopened package.

Customer and Technical Services

Customer support

Toll Free: 800-832-9002

Fax: 800-952-2368

Technical assistance

Information is available by calling the Technical Support Hotline.

Toll Free: 800-832-9023

Fax: 630-952-1235



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