



# Glass Tile Mortar



LATEX MODIFIED MORTAR

Tile Perfect™ Glass Tile Mortar is for use installing glass tile and mosaics. Mixed with water, it exceeds ANSI A118.4 and ANSI A118.11 specifications. Use interior and exterior.

- Best bonding strength for glass tile installations
- Super white to enhance color of tiles
- Just mix with water, no additive needed

### Warranty

For details about our limited warranties, see your sales associate or [www.hbfuller-cp.com/tp](http://www.hbfuller-cp.com/tp).

### Suitable Substrates

- Gypsum wallboard
- Water resistant gypsum wallboard (greenboard)
- Cementitious backer units (CBU)
- Glass mat backer board
- Plastic laminate
- Cured concrete, cured mortar beds, brick and masonry
- APA Grade Trademarked Exposure 1 Plywood [CDX 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)
- Adhesive residue (except tacky or pressure-sensitive adhesive)

### Product Specifications

Description	ANSI Requirement	Typical Results
28 Day Shear Strength ANSI 118.4 Glazed Wall Tile	> 300 psi (2.1 MPa)	> 600 psi* (4.1 MPa)
Impervious Ceramic Tile (Porcelain)	> 200 psi (1.4 MPa)	600 psi (4.1 MPa)
Quarry Tile	> 150 psi (1.0 MPa)	725 psi (5.0 MPa)
Sag on Vertical Surfaces	≤ 1/16" (1.6 mm)	0-1/32" (0-0.8 mm)
Open Time at Room Temperature	≥ 50 minutes	100-120 minutes
Adjustability at Room Temperature	≥ 30 minutes	50-70 minutes
Final Set	9-15 hours	11-13 hours
Flexibility (movement absorbed before shear) Porcelain to Concrete	No ANSI spec currently available	1/16" (1.6 mm)
28 Day Shear Strength ANSI A118.11 Quarry Tile to Plywood	>150 psi (1.0 MPa)	335 psi** (2.3 MPa)
Description		
Physical State	Dry powder	
Color	Available in white	
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)	

\* ANSI-specified glazed wall tile failed at 600 psi (4.1 MPa) \*\* Plywood laminates typically failed over 325 psi (2.2 MPa)

### Limitations

Glass tile may not be suitable over some substrates (such as plywood, or some membranes). Verify substrate with the glass tile manufacturer. Contact Tile Perfect Technical support before installing glass with a decorative coating on the tile backing or glass tile larger than 6" x 6" (15 x 15 cm) as these materials require more detailed precautions. Not for installing green marble or other moisture-sensitive stone tile; use a suitable marble mortar. Not for use over rubber, strip wood floors, oriented strand board, particle board, lauan plywood. Do not apply over single layer wood floors. 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. If multiple containers from different lot numbers are used to install clear glass tile, pre-mix the entire contents of the containers prior to mixing with water to avoid color variation of the mortar.

### Packaging

9.75 lbs. (4.42 kg) PurePak

### 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 9.75 lbs. (4.42 kg)
3/16" x 5/32" (4.8 x 4 mm) V-notch trowel;	28-30 sq. ft. (2.6-2.8 m <sup>2</sup> )
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square notch trowel	17-19 sq. ft. (1.6-1.8 m <sup>2</sup> )
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) square notch trowel	12-14 sq. ft. (1.1-1.3 m <sup>2</sup> )

### 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.

# Glass Tile Mortar

## LATEX MODIFIED MORTAR

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.

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

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 28-37 fl. oz. (0.83-1.09 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.

### 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



H.B. Fuller Construction Products Inc.  
1105 South Frontenac Street  
Aurora, IL 60504-6451 U.S.A.  
www.hbfuller-cp.com/tp