



Glass Block Mortar

1. PRODUCT NAME

TEC® Glass Block Mortar
(363)

2. MANUFACTURER

H.B. Fuller Construction Products Inc.
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
800.552.6225 Office
800.832.9023 Technical Support
800.952.2368 Fax
tecspecialty.com

3. DESCRIPTION

TEC® Glass Block Mortar is a high quality blend of portland cement, graded silica, additives and a unique, proprietary ingredient designed to prevent mortar cracking. It is intended for use with all glass block.

For applications subjected to freeze/thaw conditions or whenever the enhanced performance of a latex modified mortar is desired, mix TEC® Glass Block Mortar with a TEC® acrylic latex additive.

Key Features and Benefits

- Pre-blended white mortar
- Proprietary, non-cracking formulation
- Mixes to a smooth, thick consistency
- Interior/exterior use
- Contributes to LEED® project points
- VOC 0

Packaging

50 lb. moisture-resistant bags (22.68 kg) Product #3300273111

Coverage

Coverage may vary according to substrate conditions and thickness of application. Figures listed below are presented only as guidelines. Approximate coverage per 50 lbs. (22.68 kg) TEC® Glass Block Mortar:

Block Size	Approximate Coverage	Number of Blocks
6" x 6" (150 x 150 mm)	8-12 sq. ft. (0.7-1.1 m ²)	36 blocks
8" x 8" (200 x 200 mm)	11-15 sq. ft. (1.0-1.4 m ²)	28 blocks
12" x 12" (300 x 300 mm)	16-20 sq. ft. (1.5-1.9 m ²)	18 blocks

Accessories

- Glass Block Anchors—to secure installation to surrounding frame. When installing 6" (150 mm) block, set anchors 18" (450 mm) apart; for 8" (200 mm) block, set anchors every 16" (400 mm); and for 12" (300 mm) block, set anchors 24" (600 mm) apart. Attach short arm of anchor to jambs and heads, with long arm extending a minimum of 9" (225 mm) into the joint.
- Glass Block Reinforcing—to strengthen glass block installation. Place in the same joint as anchors, along the entire length of joint.
- Expansion Strips—made of dense, fibrous glass or white polyethylene, inserted at heads and jambs to allow panel expansion and contraction.
- Glass Block Spacers—plastic or galvanized steel spacers speed installation and promote uniform joint spacing. Plastic spacers are used for vertical and horizontal joint alignment, galvanized steel spacers are used for horizontal joints only.
- Asphalt Emulsion Adhesive—used for bonding expansion strips to head and jambs to isolate glass block from framing.

Substrate Preparation

All framing, pocket recesses or chases must be complete, accurately placed and measured to correct dimension prior to receiving glass block. The opening should equal the nominal length and height [including the ¼" (6 mm) mortar joints] of the total number of blocks that will fit, plus ½" (12 mm). Clean glass blocks, removing any foreign substances to promote a proper mortar bond. Pre-plan the installation to determine where anchors and reinforcing will be placed. Anchors should be cut to 12" (300 mm) lengths, bent to produce a short arm [3" (75 mm)] and a long arm [9" (225 mm)]. Attach short arm of anchor to jambs and head, with long arm extending into joint. Follow anchor spacing requirements as outlined in the accessories section above. Reinforcing should extend the entire length of the glass block row. When more than one reinforcing bar is required per joint, overlap the reinforcing at least 6" (150 mm).

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Shelf Life

Maximum of 1 year from date of manufacture in unopened package.

Limitations

TEC® Glass Block Mortar should not be applied when the temperature of the area or materials is below 50°F (10°C) or above 90°F (32°C).

Cautions

Read complete cautionary information printed on product container prior to use. 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 TEC® 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.

4. TECHNICAL DATA

Physical Properties

TEC® Glass Block Mortar (363)	
Description	
Physical State	Dry powder
Color	White
Pot Life	1 hour
Initial Cure [at 72°F (22°C)]	16 to 24 hours
Final Cure	21 days
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Shelf Life	Maximum 1 year from date of manufacture in properly stored, unopened package.

5. INSTALLATION INSTRUCTIONS

Mixing—with water

For best results, all glass block materials, accessories, room and adhesives should be at 50°-70°F (10-21°C) for 24 hours before and 48 hours after installation. Thoroughly mix 50 lbs. (22.68 kg) TEC® Glass Block Mortar with 1¼ gallons (4.73 L) clean, cool water. Add powder to liquid for ease of mixing. Avoid adding excess liquid as this may cause glass block to sink into mortar during installation. Mix material to a consistency that is drier than mortar used for ordinary masonry or tile work. Allow the mortar to stand for 10 minutes, then remix and apply. Avoid breathing dust and contact with eyes and skin. Avoid using high speed mixing, not to exceed 300 rpm, to prevent entraining air. Maximum working time of the mortar is approximately 1 hour at 70°F (21°C).

Retempering the mortar with water after it has taken its initial set is not permitted. Do not use antifreeze compounds or accelerators.

Mixing—with Acrylic Latex Additive

For improved performance in any application, TEC® recommends the use of either TEC® XtraFlex™ acrylic latex additive or TEC® Acrylbond® AMA acrylic latex additive in place of water. For installations subjected to freeze/thaw conditions the use of either of these additives is required.

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

Application

Using a trowel, place a full mortar bed, at least $\frac{3}{8}$ "- $\frac{1}{2}$ " (9-12 mm) thick, on the base or sill. Do not furrow. Install first block snugly against expansion strip at the jamb location with spacers in place. Use a rubber mallet to tap blocks into place. Do not use steel tools on glass blocks for adjustments as surface may be scratched. Do not place mortar between expansion strips and glass block. For remaining blocks, apply approximately $\frac{3}{8}$ "- $\frac{1}{2}$ " (9-12 mm) mortar to the vertical edge that will be in contact with the preceding block. Lay each block in place on the curb or sill with appropriate spacers. Set remaining courses as outlined above. Once the mortar has set (in approximately 2 hours), smooth all joints with a striking tool. Striking should leave all joints completely filled with mortar.

Anchors and glass block reinforcing are placed in the same joint as detailed above. Anchors should be securely fastened to the framing, with the expansion strip trimmed to cover the anchor short arm. When vertical expansion joints are present, reinforcing should neither continue through nor bridge them.

Clean-up

Clean tools and hands immediately, while mortar is still fresh, with warm soapy water. Remove surplus mortar from the faces of the glass block, at the time joints are struck or tooled, using a damp sponge or cheese cloth before the material hardens. Perform final cleaning about 15 minutes later by polishing off remaining haze with a clean, soft, dry cloth.

Curing/Protection

Protect finished installation from moisture or rain for 24 hours after installation.

6. AVAILABILITY

TEC® Premium Tile and Stone Installation Products are available nationwide. To locate TEC® products in your area, please contact:

Phone: 800-832-9002

Website: tecspecialty.com

7. LIMITED WARRANTY

The product(s) covered by this Product Data Sheet are sold subject to a Limited Warranty and related terms. H.B. Fuller Construction Products disclaims the implied warranties of merchantability and fitness for a particular purpose and all incidental and consequential damages arising out of the sale, purchase or use of this product. For Limited Warranty details visit tecspecialty.com. To obtain a hard copy of the Limited Warranty call H.B. Fuller Construction Products at 800-832-9023 or mail a written request to the address in Section 2 of this Product Data Sheet.

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical and safety literature

To acquire technical and safety literature, please visit our website at tecspecialty.com.

10. FILING SYSTEM

Division 9



tecspecialty.com