



GLASS PRO

TECHNICAL DATA SHEET



PRODUCT DESCRIPTION

GLASS PRO is a polymer-modified, premium grade tile mortar, that has been formulated with high quality polymers and additives to provide non-sag properties and exceptional bond strength for the installation of glass tile, including large format glass tile, glass mosaic, marble mosaic, as well as translucent natural stone. The fine aggregates and bright white color enhance the beauty of installations.

Available in 10lb. box. White color.

INDUSTRY STANDARDS AND APPROVALS

- Exceeds A118.4 A118.11 A118.15 ANSI Requirements

WHERE TO USE

- Residential and commercial installations.
- Floors, walls, interior, and exterior applications.
- Installation of glass tile, large format glass tile, glass mosaic, marble mosaic, and translucent natural stone.

- Installation of vitreous, semi-vitreous, or absorptive tile: ceramic, mosaic, quarry, cement, impervious porcelain.
- Installations subject to water immersion.
- Installation of ceramic tile, glass, quarry and natural stone tiles, mini brick, pre - cast terrazzo and most other types of absorptive tiles.

SUITABLE SUBSTRATES

When mixed with water

- Concrete (cured for at least 28 days).
- Masonry cement block, brick, cement mortar beds, and leveling coats.
- Cement backer units.
- Gypsum wallboard and plaster.

When mixed with admix

- Substrates mentioned above.
- Exterior grade plywood.
- Properly prepared existing ceramic and porcelain tile, cement terrazzo, quarry tile, and pavers.
- Waterproofing, crack isolation, and sound reduction membranes.

LIMITATIONS

- Install at temperatures between 40°F and 95°F (4°C and 35°C).
- Do not use for moisture-sensitive stone (green marble, some limestone, and some granite), agglomerate tiles made of moisture-sensitive stone pieces, or resin backed tiles.
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), and substrates containing asbestos or metal.
- Do not bond directly to hardwood, particle board, parquet, cushion, or sponge backed vinyl flooring, metal, fiberglass, plastic, or OSB panels.
- To use directly over gypsum based patching or leveling substrates, apply a suitable sealer/primer before use.
- Installations over non-porous surfaces, such as waterproofing membranes and existing tile, may require extended setting/curing times.
- Do not use glass tile with a decorative coating on the tile backing.

SURFACE PREPARATION

- Surface should be clean, hard, and free from dirt, dust, sealers, or any other bond breaking contaminants.
- Substrate prep should be in compliance with ANSI A108.01 "General Requirements Subsurfaces and Preparations."
- Concrete slabs must be fully cured, (28 days), structurally sound, and dimensionally stable.
- Surfaces should be frost free and the ambient temperature must be between 40°F and 95°F for 72 hours before installation can begin.
- Consult TCNA method EJ171 for expansion joint placement.

MIXING

1. Pour cold, clean water in a container. A full box (10 lb.) of GLASS PRO will need 1.2 - 1.4 liters (1.27 - 1.48 quarts) of water.
DO NOT ADD WATER TO POWDER.
2. Gradually add the powder to the water.
3. Using a low-speed mixing drill (at about 300 rpm) with an angled cross blade mixer or auger mixer, mix thoroughly for 2 to 3 minutes until mixture becomes a smooth, homogeneous, lump free paste. Avoid prolonged mixing.
4. Let the mixture slake or stand 5 minutes before application.
5. Remix.
6. If mixture becomes heavy or stiff, remix without adding more liquid or powder.

APPLICATION

1. Choose a notched trowel with sufficient depth to achieve greater than 80% mortar contact to both the tile and substrate for all interior applications, and greater than 95% for exterior installations, commercial floors, and wet applications. (It may be necessary to back butter tile and stone, to meet these requirements. Glass tile installations require 100% continuous coverage.)
2. With pressure, apply a coat by using the trowel's flat side to key mortar into the substrate.
3. Apply additional mortar, combing it in a single direction with the trowel's notched side. For glass tile and mosaics, knock down the trowel ridges to ensure that they do not show through translucent tiles.
4. Spread only as much mortar as can be tiled before the product skins over. Open time can vary with jobsite conditions.
5. Place the tiles firmly into the wet mortar.
6. Push the tiles back and forth in a direction perpendicular to trowel lines to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between mortar, tile, and substrate by periodically lifting a few tiles to check for acceptable coverage.

7. Follow immediately with a proper beating in of the tiles to flatten ridges or notches. For the installation of sheet-mounted glass and marble mosaics, after using light pressure to establish contact with fresh mortar, lightly tap the tile with a rubberfaced beating block and mallet.
8. Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting. Remove all mortar from the surface of glass tiles.

CURING

- The length of the initial set and full cure depends on climate conditions, usually 24 to 48 hours.
- Allow for proper curing prior to application of grout.
- DO NOT accelerate the curing of this material with mechanical fans or heating devices.
- Always do a test with the bonding mortar to verify the suitability of the bond to the substrate.

COVERAGE PER BOX

For 8" tile size	1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)	Covers	14 - 15.4 ft ² (1.3 - 1.4 m ²)
For 8 - 15" tile size	1/4" x 3/8"x 1/4" (6 x 9.5 x 6 mm)	Covers	9.8 - 10.9 ft ² (0.9 - 1 m ²)

TECHNICAL INFORMATION

Vertical Slip Resistance	0.01"
Open Time	20 minutes
Pot Life	30 minutes
Shelf Life	2 Years (dry and unopened)

ANSI SHEARBOND RESULTS

Materials Tested	Results	ANSI Standards
Impervious Ceramic Mosaic (shear strength @ 3 days)	400 PSI	ANSI A118.4 & A118.15
Impervious Ceramic Mosaic (shear strength @ 28 days)	570 PSI	ANSI A118.4 & A118.15
Glazed Tile (shear strength @ 3 days)	>500 PSI	ANSI A118.4 & A118.15
Glazed Tile (shear strength @ 28 days)	>700 PSI	ANSI A118.4 & A118.15
Glass shear strength	>300 PSI	ANSI A118.4 & A118.15
Compressive Strength @ 28 days	3000 PSI	ANSI A118.4 & A118.15

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PRECAUTIONARY STATEMENTS

- This material contains Portland cement, silica sand and polymers.
- Contact with dry or freshly mixed mortar, grout or concrete may cause skin irritation.
- If direct contact occurs, wash exposed skin areas promptly with soap and water.
- If any cement material gets into the eyes, rinse immediately and repeatedly with water, and seek prompt medical attention.
- For detailed information on how to use and handle this product safely, see the Material Safety Data Sheet.

KEEP OUT OF REACH OF CHILDREN

CEMENTPRO, as a manufacturer of processed material in the State of California, is required by Proposition 65 to provide warning that one or more of the components contained in this product could contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. The State of California requires the above warning in the absence of definitive testing to prove that the defined risks do not exist. We believe this product complies with all other applicable state and federal laws and regulations governing manufacture, distribution and intended use.

WARRANTY

1-Year Product Limited Warranty.

Obtain the applicable

LIMITED PRODUCT WARRANTY

at <https://cementpro.com/warranty/>

When Glass Pro is used as part of an installation system of CEMENTPRO products, this can qualify for up to a 25-year system warranty. Reference the applicable System Warranty at www.cementpro.com

For Warranty Questions:

Write to: 3929 E Guasti Rd, Unit C
Ontario, CA 91761

Call: (951) 300-0300 Ext. 600

Email: Warranty@cementpro.com

