Glass tile installation solutions

Interior · Exterior · Dry · Submerged

MAPEI®

Glass tiles continue to grow in popularity along with increasing availability in shapes, sizes and styles. But the nonporous nature of glass tile requires high-bond-strength mortars that can handle their use on vertical surfaces.

Whether your glass tile installation is interior or exterior, dry or submerged, MAPEI has an installation system that will protect your investment in the long term, no matter what challenge your installation presents.

* Note: MAPEI Corporation's mortars and grouts for ceramic and glass tile meet or exceed the specified requirements of ANSI A137.2, the American National Standard Specification for Glass Tile.

Interior: Countertops, backsplashes, showers and accent walls

All the components for installing beautiful, interior tiles

	Product Code	Packaging
Modified Mortar Bed	0376027	Bag: 60 lbs. (27.2 kg)
Planitop 330 Fast	2235823	Bag: 50 lbs. (22.7 kg)
Planislope RS	0376523	Bag: 50 lbs. (22.7 kg)

SURFACE PREP

Modified Mortar Bed is a pre-blended, cement-based, polymer-modified, thick-bed and render mortar. It includes a blend of selected aggregates, and like MAPEI's other render and sloping mortars (*Planitop® 330 Fast* and *Planislope™ RS*), does not require the use of a latex additive to create an exceptionally strong mortar.

	Product Code	Packaging
Mapelastic AquaDefense	7339104 7339113 7339119 7339178	1 U.S. gal. (3.79 L) 3.5 U.S. gals. (13.2 L) 5 U.S. gals. (18.9 L) Drum: 55 U.S. gals. (208 L)
Mapelastic Turbo	1676309KIT 1676318 1676418	Kit: 20 lbs. (9.07 kg) Bag: 22 lbs. (9.98 kg) Pail: 2 U.S. gals. (7.57 L)

WATERPROOFING

After the substrate has been properly prepared, consider using a waterproof membrane such as *Mapelastic® AquaDefense*, a premium waterproofing and crack-isolation membrane. This premixed, advanced liquid-rubber membrane provides a thin continuous barrier to protect adjacent rooms and floors below from water damage.

Mapelastic Turbo premium, rapid-drying, waterproofing and crack-isolation membrane is also an approved product for waterproofing when time is a consideration. It features a two-component, rapid-drying, cementitious-binder-based membrane with fine aggregates, special admixtures and synthetic polymers that is easily applied via a roller or brush. *Mapelastic Turbo* is rapid-setting: You can tile in as little as 90 minutes and flood-test after 3 to 4 hours.

Keraflex Super and *Ultracolor Plus FA* are part of the "CO_2 Fully Offset in the Entire Life Cycle" line of products. CO_2 emissions measured throughout the life cycle of products from the Zero line in 2023, using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of third-party-certified carbon credits in support of renewable energy and forestry protection projects: A commitment to the planet, to people and to biodiversity. For more details on how emissions are calculated and on climate-mitigation projects that are financed through certified carbon credits, visit www. mapei.com/us/sustainable-products.

MORTAR

- To install transparent, translucent or opaque glass mosaic tiles: Use *Adesilex™ P10 Mosaic & Glass Tile* with *Keraply ®* or *Kerapoxy® CQ* Eggshell premium, stain-free, 100%-solids, epoxy mortar and grout. *Keraply* is a professional-grade, acrylic latex admixture used to enhance the performance of MAPEI's non-modified, dry-set mortars as well as *Adesilex P10* glass tile mortar. The bright white color formulation of *Adesilex P10* glass tile mortar enhances the color of the glass tile. The non-sag properties and creamy paste consistency make it an ideal product for vertical applications where nonslip performance and full coverage are demanded. The inclusion of *Keraply* latex additive enhances bond strength, flexural strength and elongation properties of the mortar installation for premium end-use requirements.

- To install opaque glass mosaic tiles: Use *Keraflex™ Super* premium, extra smooth, polymer-modified thin-set mortar. It has an excellent adhesion to both tile and substrate, as well as enhanced resistance to freeze/thaw environments.

- To install coated or backed tiles: Use *Planicrete® W* polyurethane flexible setting compound or use *Kerapoxy 410* 100%-solids, epoxy setting mortar with high compressive strength and impact resistance.

	Product Code	Packaging
Adesilex P10 Mosaic & Glass Tile	2772105 2772120	Bag: 10 lbs. (4.54 kg) Bag: 43 lbs. (19.5 kg)
Keraply	0141102 0141108 0141119 0141178	Bottle: 54.4 U.S. oz. (1.61 L) Jug: 2 U.S. gals. (7.57 L) Pail: 5 U.S. gals. (18.9 L) Drum: 55 U.S. gals. (208 L)
Keraflex Super	1200120USA 1200220USA	Bag: 44 lbs. (20.0 kg), gray Bag: 44 lbs. (20.0 kg), white
Planicrete W	0379007	Kit: 1.8 U.S. gals. (6.81 L)
Kerapoxy 410	7491811	Kit: 3 U.S. gals. (11.4 L)
Kerapoxy CQ	5UB5XXX04* 5UB5XXX08*	1 U.S. gal. (3.79 L) 2 U.S. gals. (7.57 L)

* For the "5XXX" portions of the product code, use the four-digit number of the desired grout color.

GROUP

Keracolor® U is a premium-grade, preblended, polymer-modified, unsanded, Portland-cement tile grout that requires only the addition of water for mixing. It will grout tile joints from 1/16" to 1/8" (1.5 to 3 mm).

Or, after preparing a mockup to check for scratching, you may also consider using *Kerapoxy CQ, MAPEI Flexcolor® CQ, MAPEI Flexcolor 3D, Ultracolor® Plus FA* or *Ultracolor Plus Max*.

	Product Code	Packaging
Keracolor U	5UH5XXX05* 5UH5XXX11*	Bag: 10 lbs. (4.54 kg) Bag: 25 lbs. (11.3 kg)
Kerapoxy CQ	5UB5XXX04* 5UB5XXX08*	1 U.S. gal. (3.79 L) 2 U.S. gals. (7.57 L)
MAPEI Flexcolor CQ	4KA5XXX04* 4KA5XXX08*	Pail: 1 U.S. gal. (3.79 L) Pail: 2 U.S. gals. (7.57 L)
MAPEI Flexcolor 3D	4KN5XXX02*	Pail: 0.5 U.S. gal. (1.89 L)
Ultracolor Plus FA	6BU5XXX05* 6BU5XXX11*	Bag: 10 lbs. (4.54 kg) Bag: 25 lbs. (11.3 kg)
Ultracolor Plus Max	6BS5XXX05* 6BS5XXX11*	Bag: 10 lbs. (4.54 kg) Bag: 25 lbs. (11.3 kg)

* For the "5XXX" portions of each product code, use the four-digit number of the desired grout color.

	Keracolor U	Ultracolor Plus FA	Ultracolor Plus Max	MAPEI Flexcolor 3D	MAPEI Flexcolor CQ	Kerapoxy CQ / Kerapoxy IEG CQ
Exterior application	✓	✓	✓	✓ *	✓	✓
Medium and wide joint widths: 1/8" to 5/8" (3 to 16 mm)		✓ †	✓ †	✓ ††	✓ ††	✓ †††
Narrow joint widths: 1/16" to 1/8" (1.5 to 3 mm)	✓	✓	✓	✓	✓	✓
Stain and chemical resistance (ANSI A118.3)				✓	✓	✓
Stain-resistant: Sealing not required		✓	✓	✓	✓	✓
Ready to use				✓	✓	

† *Up to 3/4" (19 mm)*
†† *Up to 1/2" (12 mm)*
††† *Kerapoxy CQ only goes up to 3/8" (10 mm).*
* *Exterior walls only*

CAULK/SEALANT

For filling and protecting the corner and movement joints, *Mapesil T Plus* is a professional-grade, 100%-silicone sealant for use on multiple substrates. This product is specifically formulated for heavy traffic and expansion/movement joints. *Mapesil T Plus* is available in MAPEI's full color palette plus Clear.

For non-immersion projects, *Keracaulk® S* and *Keracaulk U* can be considered as excellent options. *Keracaulk S* (sanded) and (unsanded) are premium-grade, easy-to-use, easy-to-clean, siliconized acrylic caulks that are formulated to match all of MAPEI's grout colors.

	Product Code	Packaging
Mapesil T Plus	3BU5XXX41**	Cartridge: 10.1 U.S. oz. (299 mL)
Keracaulk S	4JA5XXX33**	Cartridge: 10.5 U.S. oz. (311 mL)
Keracaulk U	4JB5XXX33**	Cartridge: 10.5 U.S. oz. (311 mL)

** For the "5XXX" portions of each product code, use the four-digit number of the desired caulk/sealant color.

MAPEI®

Exterior: Pools, fountains and water features
Rapid-setting systems for beautiful submerged environments

SURFACE PREP

Prepare the concrete substrate using a blend of 3 parts sand to 1 part cement mixed with *Planicrete AC. Planicrete AC* is a liquid acrylic latex admixture designed to enhance the performance of the 3-to-1 site mix, and to increase compressive, flexural and tensile strengths while reducing permeability.

Modified Mortar Bed is a pre-blended, cement-based, polymer-modified, thick-bed and render mortar that does not require the use of a latex additive to function as an exceptionally strong mortar.

Another of MAPEI's render mortars, *Planitop 330 Fast*, is faster-setting for wall applications and offers non-sag/nonslump, nonshrinking properties. It is also ideal for submerged applications and works well in freeze/thaw environments.

MAPEI's pre-blended *Planislope RS* does not require the use of a latex additive to create an exceptionally strong mortar. The rapid-setting nature of this product allows you to set tile in 1 to 2 hours. Formulated for use in wet and dry environments, *Planislope RS* is easy to apply and has a smooth finish.

	Product Code	Packaging
Planicrete AC	0378204 0378219	Jug: 1 U.S. gal. (3.79 L) Pail: 5 U.S. gals. (18.9 L)
Modified Mortar Bed	0376027	60 lbs. (27.2 kg)
Planitop 330 Fast	2235823	Bag: 50 lbs. (22.7 kg)
Planislope RS	0376523	Bag: 50 lbs. (22.7 kg)

WATERPROOFING

Mapelastic AquaDefense is a premium, quick-drying, waterproofing and crack-isolation membrane for use in residential, commercial and industrial environments. *Mapelastic AquaDefense* can be easily applied with a roller or brush and dries after about 30 to 50 minutes, allowing for the installation of tile. *Mapelastic AquaDefense* can be flood-tested after 12 hours of drying time.

Mapelastic Turbo premium, rapid-drying, waterproofing and crack-isolation membrane is also an approved product for waterproofing when time is a consideration. It features a two-component, rapid-drying, cementitious-binder-based membrane with fine-grained selected aggregates, special admixtures and synthetic polymers in water dispersion that is easily applied via a roller or brush. *Mapelastic Turbo* is rapid-setting, letting you tile in as little as 90 minutes and flood-test after 3 to 4 hours.

	Product Code	Packaging
Mapelastic AquaDefense	7339104 7339113 7339119 7339178	Pail: 1 U.S. gal. (3.79 L) Pail: 3.5 U.S. gals. (13.2 L) Pail: 5 U.S. gals. (18.9 L) Drum: 55 U.S. gals. (208 L)
Mapelastic Turbo	1676309KIT 1676318 1676418	Kit: 20 lbs. (9.07 kg) Bag: 22 lbs. (9.98 kg) Pail: 2 U.S. gals. (7.57 L)

MORTAR

Used for installations of face-mount, mesh-mount or dot-mount glass mosaic tiles, MAPEI's *Granirapid*® White is a premium rapid-setting mortar system, the industry's first and best fast-curing system designed for fast-track projects. *Granirapid* is formulated with MAPEI's High-Hydrated Cement Technology (HCT™), allowing it to develop high early mechanical strength and superior drying-out characteristics for quick curing so that grout can be applied after 3 to 4 hours. *Granirapid* does not contribute to efflorescence. And when installed in conjunction with *Ultracolor Plus FA* grout, *Granirapid* will allow water submersion in only 72 hours.

	Product Code	Color	Packaging
Grandrapid	1401408	N/A	Jug: 2 U.S. gals. (7.57 L)
	1401419	N/A	Pail: 5 U.S. gals. (18.9 L)
	1401478	N/A	Drum: 55 U.S. gals. (208 L)
	1401223	Gray	Bag: 50 lbs. (22.7 kg)
	1402221	White	Bag: 46 lbs. (20.9 kg)

GROUT

Grout the glass tile using either *Ultracolor Plus FA* or *Ultracolor Plus Max*. Both products are high-performance grouts formulated with MAPEI's High-Hydrated Cement Technology. When Granirapid is used in conjunction with *Ultracolor Plus FA* or *Ultracolor Plus Max*, the installation will allow water immersion as soon as 72 hours after completion, compared with 28 days for traditional systems. *Ultracolor Plus FA* and *Ultracolor Plus Max* are rapid-setting, "all-in-one" grout replacements for sanded and unsanded grouts. Designed for joint widths from 1/16" to 3/4" (1.5 to 19 mm), *Ultracolor Plus FA* and *Ultracolor Plus Max* are color-consistent, nonshrinking, and do not promote efflorescence.

	Product Code	Packaging
Ultracolor Plus FA	6BU5XXX05* 6BU5XXX11*	Bag: 10 lbs. (4.54 kg) Bag: 25 lbs. (11.3 kg)
Ultracolor Plus Max	6BS5XXX05* 6BS5XXX11*	Bag: 10 lbs. (4.54 kg) Bag: 25 lbs. (11.3 kg)

* For the "5XXX" portion of the product code, use the four-digit number of the desired grout color.

SEALANT

For filling and protecting movement joints, *Mapesil T Plus* professional-grade, 100%-silicone sealants can be used on multiple substrates. This product is specifically formulated for heavy traffic and expansion/movement joints. Note: 7-days curing time is needed before pool filling. The resistance of *Mapesil T Plus* to chlorine is dependent on the pH value of the water and the amount of free chlorine. A pH value between 6.5 and 7.6 is required, and the free chlorine should remain less than 5 mg per L (5 ppm).

	Product Code	Packaging
Mapesil T Plus	3BU5XXX41**	Cartridge: 10.1 U.S. oz. (299 mL)

** For the "5XXX" portions of the product code, use the four-digit number of the desired sealant color.

High-performance systems with built-in confidence

MAPEI's system warranties

System warranties from MAPEI provide enhanced coverage, including replacement product and reimbursement of associated replacement costs. For warranty specifics, visit the "Tools & Downloads" section of our Website and click on "Warranties". When considering a system warranty, the customer and the MAPEI representative should review the MAPEI products applicable for each category of the installation – such as surface preparation, waterproofing, mortars and grouts. For any installation exceeding 10,000 square feet (929 m²), contact MAPEI's Technical Services Department to confirm the system recommendations.

Special circumstance warranties

Commercial and residential contractors can contact their distributor to locate a MAPEI sales representative, who can provide a project warranty when it is a required contract document. All project warranties must be requested prior to the start of the installation.

Videos from MAPEI Technical Institute

Look for new and informative MTI-TV videos on MAPEI's Website or find them on the YouTube channel for MAPEI USA.

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