



Adesilex™ P10 RS Mosaic & Glass

**Premium, Rapid-Setting
Mosaic & Glass Tile Mortar
with Polymer**

& Tile



DESCRIPTION

Adesilex P10 RS Mosaic & Glass Tile is a rapid-setting, premium-grade, bright white, multipurpose thin-set mortar formulated with non-sag properties. *Adesilex P10 RS Mosaic & Glass Tile* is designed for glass tile, glass mosaic and marble mosaic, and is ideal for light translucent natural stone.

FEATURES AND BENEFITS

- Rapid-setting formulation
- Non-sag performance
- Great for sheet-mounted mosaics
- Quality-controlled color matching for consistent bright white color

INDUSTRY STANDARDS AND APPROVALS

- ANSI: Exceeds ANSI A118.4TF bond strength requirements
- ISO 13007: Classification C2TF

WHERE TO USE

- Most interior/exterior residential installations on floors and walls
- Most interior/exterior commercial installations on floors
- Most interior commercial installations on walls
- Installation of ceramic and porcelain tile, glass tile, quarry tile, pavers and most types of marble, granite and natural stone

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. Instead, use suitable epoxy or urethane adhesives (see the respective Technical Data Sheet for details).
- Do not use over dimensionally unstable substrates such as hardwood flooring, oriented strand board (OSB), substrates containing asbestos, or metal. See the "Suitable Substrates" section below.
- To use directly over gypsum-based patching or leveling substrates, apply a suitable sealer/primer before use. See the technical bulletin "Tiling over gypsum" in the Tile & Stone Installation Systems section of MAPEI's Website.
- Installations over nonporous surfaces, such as waterproofing membranes and existing tile, may require extended setting/curing times.
- Do not use for glass tile with a decorative coating on the tile backing, without verifying suitable bond.
- For large-format glass tile, see the technical bulletin "Installing large-format, opaque glass tiles" in the Tile & Stone Installation Systems section of MAPEI's Website.
- Follow the glass tile manufacturer's recommendations regarding limitations and appropriate use.
- Not recommended for areas subject to severe freeze/thaw conditions. For the best installation performance, use a MAPEI liquid, latex additive mortar system such as *Adesilex P10 Mosaic & Glass Tile* mixed with *Keraply®*.
- Mix with water only. Do not mix with liquid latex additive.
- Do not use on exterior commercial building facades, such as shopping malls, office buildings, high-rise residential units, etc.

- Do not use for installations subject to water immersion, such as pools and spas. Use *Adesilex P10 Mosaic & Glass Tile* mixed with *Keraply* for these applications.

SUITABLE SUBSTRATES

- Concrete (cured at least 28 days)
- Masonry cement block, brick, cement mortar beds and leveling coats
- Tile backer units – see manufacturer's installation guidelines
- Gypsum wallboard and plaster— interior walls in dry areas only (priming may be required). See the "Surface preparation requirements" reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

Note: Glass tile may not be suitable over some of the above substrates. Consult the recommendations of the TCNA and the glass tile manufacturer regarding glass tile installations over these substrates or membranes.

SURFACE PREPARATION

- All substrates should be structurally sound, stable, dry, clean and free of any substance or condition that may reduce or prevent proper adhesion.

See the "Surface preparation requirements" reference guide in the Tile & Stone Installation Systems section of MAPEI's Website.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. The mixing container should be clean, and water should be clean and potable.
2. For 10 lbs. (4.54 kg) of *Adesilex P10 RS Mosaic & Glass Tile*: Pour about 1.25 to 1.5 U.S. qts. (1.18 to 1.42 L) of water. Gradually add 10 lbs. (4.54 kg) of powder while slowly mixing.
3. Use a low-speed mixing drill (at about 300 rpm), with an angled cross-blade mixer or spiral mixer. Mix thoroughly until the mixture becomes a smooth, homogenous, lump-free paste. Avoid prolonged mixing.
4. Do not slake. Spread immediately.
5. If the mixture becomes heavy or stiff, remix without adding more water or powder.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. If installing glass tile, consult specifications by the manufacturer to verify the suitability of *Adesilex P10 RS Mosaic & Glass Tile* for specific installations and installation procedures.

2. Choose a notched trowel (see the "Approximate Coverage" chart below) 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 floor and wet applications. It may be necessary to back-butter tile/stone in order to meet these requirements. Translucent glass-tile installations require 100% continuous coverage. (Refer to ANSI A108.5, ANSI A108.14, ANSI A108.15 and ANSI A108.16 standards as well as TCNA Handbook guidelines.)
3. With pressure, apply a coat by using the trowel's flat side to key mortar into the substrate.
4. Apply additional mortar, combing it in a single direction parallel to the tile's shortest dimension, with the trowel's notched side. For glass tile and mosaics, using the flat edge of the trowel, knock down the trowel ridges to ensure that they do not show through translucent tiles.
5. Spread only as much mortar as can be tiled before the product skins over. Open time can vary with jobsite conditions.
6. Place the tiles firmly into the wet mortar. 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 the 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 tile. For the installation of sheet mounted glass and marble mosaics, after using light pressure to establish contact with the fresh mortar, lightly tap the tile with a rubber-faced 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 (see ANSI A108.10 guidelines). Remove all mortar from the surface of glass tiles.

EXPANSION AND CONTROL JOINTS

- Provide for expansion and control joints as specified per TCNA Method EJ171 or TTMAC Specification Guide 09 30 00, Detail 301MJ. Do not cover expansion joints with mortar.
- Glass tiles exhibit more dimensional change due to temperature fluctuations than do ceramic or porcelain tiles. Joint spacing recommendations in EJ171 (301MJ) give a range for interior and exterior applications. For glass-tile installations, add additional movement joints in order to reduce stresses.
- Protect tilework with metal strips (edge metal) along both edges of structural building expansion joints.
- Install the specified profile or compressible backer rod and sealant into all expansion and control joints.

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ISO 13007 Classification

Classification Code	Classification Requirement
C2 (cementitious, improved adhesion)	≥ 145 psi (1 MPa) after standard aging, heat aging, water immersion and freeze/thaw cycles
T (vertical slip resistance)	≤ 0.002" (0.5 mm)
F (fast-setting)	≥ 72.5 psi (0.5 MPa) after 6 hours

ANSI Specifications

Test Method	Specification Standard	Test Results
ANSI A118.4F – shear strength, impervious ceramic (porcelain) mosaics	> 50 psi (0.34 MPa) at 4 hours	Pass
ANSI A118.4 – shear strength, impervious ceramic (porcelain) mosaics	> 200 psi (1.38 MPa) at 28 days	200 to 300 psi (1.38 to 2.07 MPa)
ANSI A118.4 – shear strength, glazed wall tile	> 300 psi (2.07 MPa) at 28 days	300 to 500 psi (2.07 to 3.45 MPa)
ANSI A118.4 – shear strength, quarry tile to quarry tile	> 150 psi (1.03 MPa) at 28 days	255 to 425 psi (1.76 to 2.93 MPa)
ANSI A118.4T – sag on vertical surfaces	< 0.02" (0.5 mm) at 20 minutes	Pass

Shelf Life and Application Properties* at 73°F (23°C) and 50% relative humidity

Shelf life	1 year when stored in original, unopened packaging
Open time*	10 to 20 minutes
Pot life*	20 to 30 minutes
Time before grouting*	3 to 4 hours
VOCs (Rule #1168 of California's SCAQMD)	0 g per L

* Open time, pot life and time before grouting vary based on jobsite conditions.

Packaging

Size and Color
Bag: 10 lbs. (4.54 kg), bright white

Approximate Coverage** per 10 lbs. (4.54 kg)

Typical Trowel	Coverage
1/8" x 3/16" x 1/8" (3 x 4.5 x 3 mm) 	18 to 24 sq. ft. (1.67 to 2.23 m²)
1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) 	16 to 20 sq. ft. (1.49 to 1.86 m²)
1/4" x 3/8" x 1/4" (6 x 10 x 6 mm) 	11 to 14 sq. ft. (1.02 to 1.30 m²)

** Trowel dimensions are width/depth/space. Actual coverage will vary according to substrate profile and tile type.

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CLEANUP

- Use water only to clean tools and tiles while the mortar is fresh.

PROTECTION

- Protect from foot traffic for 3 to 4 hours and from heavy traffic for 24 hours.
- All glass installations benefit from extended curing times before grouting or permitting foot traffic.
- Protect from frost and rain for 7 days.

RELATED DOCUMENTS

Reference guide: "Surface preparation requirements" for tile and stone installation systems*

Technical bulletin: "Tiling over gypsum"*

Technical bulletin: "Installing large-format, opaque glass tiles"*

* At www.mapei.com

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at

www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use,

and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

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