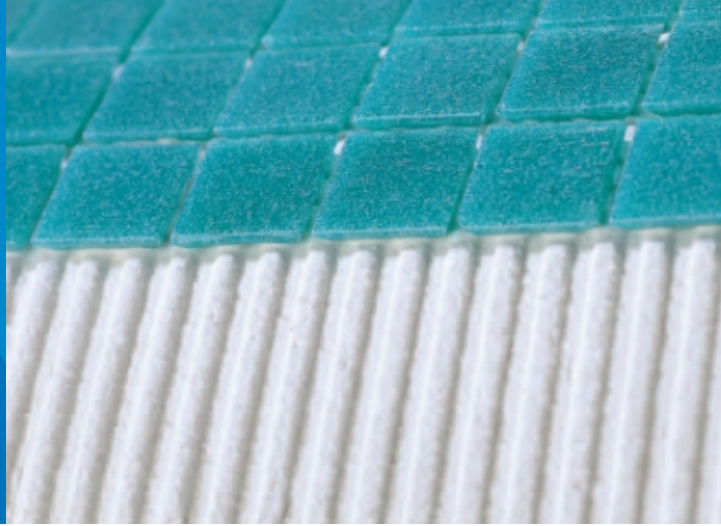


# ADESILEX P10

High-performance white cementitious adhesive with no vertical slip and extended open time for glass, ceramic and marble mosaic coverings



## CLASSIFICATION IN COMPLIANCE WITH ISO 13007-1

Adesilex P10 is an improved (2) slip-resistant (T) cementitious adhesive (C) with extended open time (E) of class C2TE.

## WHERE TO USE

Interior and exterior floor and wall bonding of:

- installation of normal or heavy weight mesh backed or paper faced glass, ceramic and marble mosaic.

### Some application examples

#### Adesilex P10:

- Bonding of ceramic, glass and marble mosaic on cementitious renders, from the top towards the bottom.
- Bonding mosaic on non-planar substrates, without tiles slipping.
- Bonding mosaic on gypsum board panels after first priming with the appropriate MAPEI primer.

#### Adesilex P10 mixed with Isolastic 50 or Isolastic diluted 1:1 with water:

- Bonding mosaic in swimming pools on renders or on substrates waterproofed with **Mapelastic** or **Mapelastic Smart**.
- Internal bonding of mosaic on existing ceramic tiles.
- Bonding small sized ceramic tiles (not larger than 300 cm<sup>2</sup>) on renders in swimming pools.

## TECHNICAL CHARACTERISTICS

**Adesilex P10** is a particularly fine white powder composed of cement, graded aggregates, synthetic resins and special additives according to a formulation developed in MAPEI's Research Laboratories.

**Adesilex P10** mixed with the correct amount of water or **Isolastic** becomes a mortar with the following features:

- white in colour. It enhances the colours of glass mosaic tiles;
- a creamy paste which is easily workable;
- excellent adhesion to all conventional materials used in building;
- particularly extended open and adjustability time, making installation easier.
- highly thixotropic: **Adesilex P10** (when mixed with water only) can be applied on a vertical surface without sagging or slipping even when heavy tiles are used. Mosaic tiles can be installed from the top towards the bottom without using spacer pegs.

## RECOMMENDATIONS

Use **Adesilex P10** mixed with **Isolastic** diluted 1:1 with water in the following cases:

- for installing glass mosaic or ceramic tiles on non-absorbent surfaces (**Mapelastic**, **Mapelastic Smart**, **Mapegum WPS**, tiles, etc.);
- for installing glass mosaic or ceramic tiles in swimming pools, basins or similar structures even on absorbent substrates.

Do not use **Adesilex P10** in the following cases:

- on wood or wooden conglomerates;
- on metal, rubber, PVC or linoleum surfaces;
- for ceramic tile installations when a nominal adhesive layer thicker than 5 mm is required;
- on concrete substrates where excessive movement or delayed shrinkage is anticipated;
- on particularly moist substrates which could slow down the setting of **Adesilex P10**.

# APPLICATION PROCEDURE

## Preparation of the substrate

The substrate must be adequately cured, mechanically sound, free of loose particles, grease, oil, paint, wax and other deleterious material or surface contamination and should be sufficiently dry.

Cementitious substrate must not be subject to shrinkage after tile installation. In mild weather, renders must have cured at least 1 week for each centimeter of thickness and cementitious screeds must have cured at least 28 days, unless they have been made with MAPEI special binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem**, **Topcem Pronto**. Surfaces that could become too hot due to exposure to sunlight, consider shading or cooling down with potable water. Gypsum substrate and anhydrite screeds must be perfectly dry (maximum residual moisture 0.5%), sufficiently hard and free of dust. It is absolutely essential that they are treated with **Primer G** or **Eco Prim T**. Areas subject to high moisture content should be primed with **Primer S**.

## Preparation of the mix

While stirring, pour **Adesilex P10** into a container with approximately 35-37 per 100 parts (by weight) of clean water equal to 8.75-9.25 L of water per 25 kg of **Adesilex P10**.

Mix, preferably with a low-speed mixer, to obtain a homogeneous, creamy paste and lump-free mix; leave to rest for approximately 5 minutes and re-mix, the paste is then ready to use.

The mix, produced in this way, is workable for approximately 8 hours (at +23°C).

## Application of the mix

To ensure good adhesion, it is recommended to first spread a thin layer of **Adesilex P10** on the substrate using the straight edge of the trowel. This allows for making the best use of the open time and adjustability time of the adhesive.

Then apply the mixture with the suitable notched trowel.

The basic principle to be followed is to choose the most suitable trowel and to wet 100% of the back of the tile with the adhesive. For tiles with high, profiled ribs, **Adesilex P10** must also be applied on the back of the tiles.

## Installation of the tiles

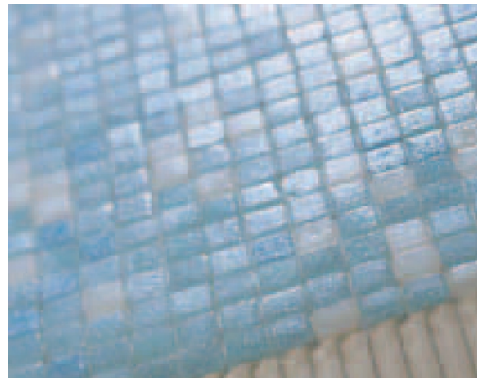
It is not necessary to wet the tiles before installation; only in the case of very dusty backs washing is recommended, by quickly immersing them in clean water. The tiles must be installed in the normal way, placing them firmly to ensure good contact with the adhesive. The open time of **Adesilex P10** in normal conditions of temperature and humidity is more than 30 minutes; unfavorable environmental conditions (strong sunlight, drying wind, high temperature as well as a highly absorbent substrate), could drastically reduce this time to a few minutes.

Therefore one must constantly check that the adhesive has not formed superficial skin and is still "fresh"; where there is a formation of superficial skin, the adhesive must be reworked with the notched trowel. Wetting the adhesive after it has produced the skin is not recommended because the water forms an anti-adhesive film instead of dissolving it. The "adjustability" of the tiles must be carried out within 45 minutes (at +23°C) after installation.

Tiles installed with **Adesilex P10** must not be subject to running water or rain for at least 24 hours and must be protected from frost and strong sunlight for at least 5-7 days after installation.



*Glass mosaic 2x2 cm installation in a swimming pool with Adesilex P10 mixed with Isolastic diluted 1:1*



*Glass mosaic 1x1 cm wall installation*



*Marble mosaic 2x2 cm wall installation*

## Grouting and sealing

Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours with the specific MAPEI cementitious or epoxy grouts, available in different colours. Expansion joints must be sealed with the specific MAPEI sealants.

Grout with the appropriate MAPEI grout (see Technical Data Sheet of grouts for details).

## Set to light foot traffic

Floors are set to withstand light foot traffic after 24 hours.

## Ready for use

Surfaces are ready for use after approximately 14 days. Basins and swimming pools can be filled after 21 days.

## Cleaning

Tools and containers should be cleaned with plenty of water while **Adesilex P10** is still fresh. Surfaces should be cleaned with a damp cloth, before the adhesive dries.

## CONSUMPTION

Bonding mosaics (trowel n. 4): 2 kg/m<sup>2</sup>  
Bonding ceramic tiles (trowel n. 5 or 6): 4-5 kg/m<sup>2</sup>

## PACKAGING

**Adesilex P10** is available in 25 kg bags.

## STORAGE

When stored in dry conditions in the original, unopened bags, **Adesilex P10** has a shelf life of 12 months. If stored at high temperature and or high humidity conditions the shelf life may be reduced.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Adesilex P10** is irritant, it contains cement that when in contact with sweat or other body fluids causes irritant alkaline reaction and allergic reactions to those predisposed. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention. It is recommended to use protective gloves and goggles. For further and complete information about the safe use of our product, please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

<b>TECHNICAL DATA (typical values)</b> In compliance with:		<ul style="list-style-type: none"><li>- European EN 12004 such as C2TE</li><li>- European EN 12004 such as C2ES1 (if mixed with <b>Isolastic</b> diluted 1:1 with water)</li><li>- ISO 13007-1 such as C2TE (C2ES1 if mixed with <b>Isolastic</b> diluted 1:1 with water)</li><li>- American ANSI A 118.4 - 1999</li></ul>
<b>PRODUCT IDENTIFICATION</b>		
Type:	powder	
Colour:	white	
Bulk density (kg/m <sup>3</sup> ):	1,350	
Dry solids content (%):	100	
EMICODE:	EC1 R PLUS - very low emission	
<b>APPLICATION DATA (at +23°C and 50% R.H.)</b>		
Mixing ratio:	35-37 parts water for 100 parts of <b>Adesilex P10</b> or 18 parts water + 18 parts of <b>Isolastic</b> for 100 parts of <b>Adesilex P10</b>	
Consistency of mix:	very creamy	
Density of mix (kg/m <sup>3</sup> ):	1,500	
pH of mix:	13	
Pot life:	approx. 8 hours	
Application temperature:	from +5°C to +40°C	

Open time (according to EN 1346):	> 30 minutes
Adjustability time:	approx. 45 minutes
Ready for grouting on walls:	after 4-8 hours
Ready for grouting on floors:	after 24 hours
Set to light foot traffic:	24 hours
Ready for use:	14 days
<b>FINAL PERFORMANCE</b>	
Bonding strength in compliance with EN 1348 (N/mm <sup>2</sup> ):	
– initial bonding (after 28 days):	1.5
– bonding after heat exposure:	1.4
– bonding after immersion in water:	1.3
– bonding after freeze/thaw cycles:	1.4
Resistance to alkali:	excellent
Resistance to oils:	excellent (poor to vegetable oils)
Resistance to solvents:	excellent
Temperature when in use:	excellent
Deformability according to ISO 13007 and EN 12004 (Adesilex P10 + Isolastic diluted 1:1 with water):	S1 - deformable



## WARNING

Although the technical details and recommendations contained in this Product Data Sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)

All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)

110-5-2014 (UAE)

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