

# Adesilex P10



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

## **CLASSIFICATION IN COMPLIANCE WITH EN 12004**

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

***Adesilex P10** is CE marked, as declared in **ITT** certificate n° **94140201.101 (SFV)** issued by the Säurefließner-Vereinigung e.V. Grossburgwedel laboratory (Germany).*

## **WHERE TO USE**

Interior and exterior floor and wall bonding of:

- front and reverse side installation of normal or heavy weight 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 not planar substrates, without tiles slipping.
- Bonding mosaic on gypsum board panels.

### **Adesilex P10 mixed with Isolastic diluted 1:1 with water:**

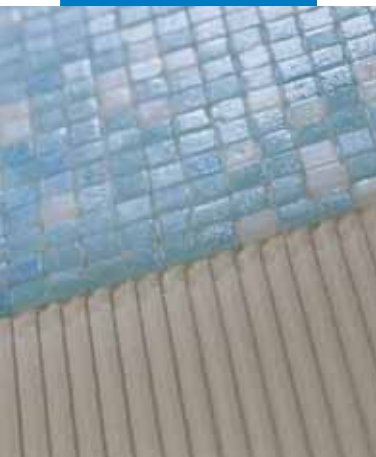
- Bonding mosaic in swimming pools on renders or on substrates waterproofed with **Mapelastic**.
- Internal bonding of mosaic on existing ceramic tiles.
- Bonding small sized ceramic tiles (not larger than 300 cm<sup>2</sup>) on renders in swimming pools.



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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

## 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;
- highly thixotropic: **Adesilex P10** 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;
- particularly extended open and adjustability time, making installation easier.

## 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**, **Mapecum 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 an adhesive layer thicker than 5 mm is required;
- on concrete subject to strong delayed movement, that is, with less than 6 months curing time.

A particularly moist substrate could slow down the setting of **Adesilex P10**.

## APPLICATION PROCEDURE

### Preparing the substrate

The substrates must be cured, sound, free of loose parts, grease, oils, paint, wax and sufficiently dry.

Cementitious substrates must not be subject to shrinkage after the installation of the tiles. During warm weather, renders must be cured at least one week per centimetre of thickness and cementitious screeds must be cured for at least 28 days, unless special MAPEI binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto** have been used.

Dampen the surfaces with water to cool

down if they should be too warm or exposed to direct sunlight.

Gypsum substrates and anhydrite screeds must be perfectly dry, sufficiently hardened and free from dust. It is absolutely essential that they be treated with **Primer G**. In areas subject to extreme damp, prime the substrate with **Primer S**.

### Preparing the mix

While stirring, pour **Adesilex P10** into a container with approximately 36% by weight of clean water (9 l of water per 25 kg of powder).

Mix, possibly with a low speed mixer, to obtain a homogeneous, creamy and lump free mix.

Let the mix stand for 5-10 minutes and briefly re-mix before use.

Mixed in this way, **Adesilex P10** has a pot life of approximately 8 hours.

### Applying the mix

To ensure good adhesion, it is recommended to spread a first 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 ground principle to be followed to choose the suitable trowel is to wet, with the adhesive, 100% of the back of the tiles. For tiles with high, profiled ribs **Adesilex P10** must be applied also on the back of the tiles.

### Installing the tiles

There is no need to wet the tiles before installing them. Only with very dusty backs is it recommended to dip the tiles in clean water.

The mosaic and tiles should be installed starting from the top towards the bottom under a firm pressure to ensure a good coverage of the adhesive.

In normal temperature and humidity conditions, the open time of **Adesilex P10** is approximately 20-30 minutes. Unfavourable weather conditions (strong sun, drying wind, high temperatures, etc.) or a highly absorbent substrate can reduce the open time, sometimes quite drastically, to just a few minutes.

It is therefore necessary that careful checks be made to ensure that a skin does not form on the surface of the spread adhesive, which should stay fresh. Wetting the substrate before spreading the adhesive could help extend the open time. If a superficial skin has formed re-freshen the adhesive again by re-spreading it with a notched trowel. It is not recommended to wet the adhesive with water once a skin has formed because, instead of dissolving the skin, the water will form an anti-adhesive film.

If necessary, tiles should be adjusted within 45 minutes after installation, after which time adjustment becomes difficult.

**TECHNICAL DATA (typical values)**

In compliance with:

- European EN 12004 such as C2TE
- European EN 12002 such as S1  
(if mixed with Isolastic diluted 1:1 with water)
- ISO 13007-1 such as C2TE (C2TES1 if mixed  
with Isolastic diluted 1:1 with water)
- American ANSI A 118.4 - 1999
- Canadian 71 GP 30 M type 2

**PRODUCT IDENTITY**

Type:	powder
Colour:	white
Bulk density (kg/m³):	1.350
Dry solid content (%):	100
Storage:	12 months in a dry place in original packaging
Hazard classification according to EC 1999/45:	irritant. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3824 50 90

**APPLICATION DATA (at +23°C and 50% R.H.)**

Mixing ratio:	36-38 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 the mix (kg/m³):	1.500
pH of mix:	13
Pot life:	approx. 8 hours
Application temperature:	from +5°C to +40°C
Open time (acc. EN1346):	> 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

**FINAL PERFORMANCES**

Bonding strength in compliance with EN 1348 (N/mm²):	
- 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 EN 12002 (Adesilex P10 + Isolastic diluted 1:1 with water):	S1 - deformable



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Floor and wall coverings installed with **Adesilex P10** must not be washed down or exposed to rain for at least 24 hours and must be protected from direct sunlight and frost for at least 5-7 days after the installation.

## GROUTING AND SEALING

Wall joints 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.

## SET TO LIGHT FOOT TRAFFIC

Floors are set to 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 paper bags.

## STORAGE

**Adesilex P10** can be stored for least 12 months in a dry place in original packaging.

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

## SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Contains cement that when in contact with sweat or other body fluids produces an irritant alkaline reaction. Use protective gloves and goggles. For further information, consult the safety data sheet.

PRODUCT FOR PROFESSIONALS.

## WARNING

*Although the technical details and recommendations contained in this product report 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 applications: 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.*

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



An example of a decoration in mosaic made with various materials