



# Adesilex P7



## High-performance cementitious adhesive with no vertical slip for ceramic and porcelain tiles

### CLASSIFICATION IN COMPLIANCE WITH EN 12004

**Adesilex P7** is an improved (2) slip resistant (T) cementitious adhesive (C) classified as C2T.

Conformity of **Adesilex P7** is declared in **ITT** certificate n° 25050141/Gi (**TUM**) and n° 2508230/Gi (**TUM**) issued by the Technische Universität München Laboratory (Germany) and **ITT** certificate n° 15/10968-1803 and n° 15/10968-1802 issued by the Laboratory APPLUS, LGAI Technological Center Bellaterra (Spain).

### WHERE TO USE

Interior and exterior bonding of ceramic tiles and mosaics on floors, walls and ceilings. Also suitable for spot bonding of insulating materials such as expanded polystyrene, rock and glass wool, Eraclit® (wood-cement panels), sound-deadening panels, etc.

### Some application examples

- Bonding ceramic, porcelain tiles and mosaics on the following substrates:
  - conventional renders or cementitious mortar on walls;
  - interior aerated concrete block walls;
  - gypsum or anhydrite after having first applied **Primer G**;
  - gypsum board;
  - underfloor heating installations;
  - cementitious screeds, as long as they are sufficiently cured and dry;
  - interior painted walls, as long as the paint is firmly anchored.

- Tile on tile of existing flooring with tiles up to 900 cm<sup>2</sup>.
- Bonding on irregular substrates and renders, without levelling, to a thickness of 15 mm.

### TECHNICAL CHARACTERISTICS

**Adesilex P7** is a grey or white powder composed of cement, fine-aggregates, synthetic resins and special admixtures, developed in the MAPEI Research and Development Laboratories.

A mortar with the following properties is obtained when mixed with water:

- easily workable;
- highly thixotropic: **Adesilex P7** can be applied on a vertical surface without slumping or slipping even when heavy tiles are used;
- perfect adherence to all materials normally used in building;
- hardens with minimal shrinkage.

### RECOMMENDATIONS

Do not use **Adesilex P7**:

- on precoat and poured concrete walls;
- on walls or floors subject to extreme flexing or vibration (wood, fibre-cement, etc.);
- on metal surfaces.

## APPLICATION PROCEDURE

### Preparing the substrate

All substrates that receive **Adesilex P7** must be flat, sound, free of loose detrits, grease, oils, paints, wax, etc.

Cementitious substrates should not continue to shrink after the installation of the ceramic tiles, therefore during spring and summer, renders must cure at least 1 week per cm of thickness and cementitious screeds must be cured at least 28 days, unless special MAPEI binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto** have been used.

Dampen 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 (max. residual moisture 0.5%), sufficiently hardened and free from dust. It is absolutely essential that they are treated with **Primer G** or **Mapecrim SP**. In areas subject to extreme dampness prime the substrate with **Primer S**.

### Preparing the mix

Mix **Adesilex P7** with clean water until a smooth, lump-free paste is obtained. Leave to rest approximately 5 minutes and re-stir. Use 24-26 parts of water for every 100 parts by weight of **Adesilex P7**, which is equal to 6-6.5 litres of water for every 25 kg of **Adesilex P7**. Mixed this way, **Adesilex P7** has a pot life of approximately 8 hours.

### Applying the mix

**Adesilex P7** is applied to the substrate using a notched trowel. Choose a trowel in order to wet the adhesive 65-70% of the back of the tiles for internal walls and light traffic areas and 100% for heavy traffic areas and all external works.

To obtain good adhesion, firstly spread a thin layer of **Adesilex P7** on the substrate using a straight edge of the trowel. Immediately after, apply the necessary thickness of **Adesilex P7** using a suitable notched trowel, depending on the type and size of the tiles (see "Consumption").

For external ceramic tile floors and walls, tanks and swimming pools, spread the adhesive on the back of the tile (back-buttering) in order to ensure complete contact.

### Installing the tiles

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

Tiles should be installed with a firm pressure to ensure good contact with the adhesive.

In normal temperature and humidity conditions, the open time of **Adesilex P7** is approximately 20 minutes. Unfavourable weather conditions (strong sun, drying wind, high temperatures, etc.) or a highly absorbent substrate can reduce the open time even to just a few minutes.

It is therefore necessary to carefully check in order to ensure that a skin does not form on the surface of the spread adhesive, which should stay fresh. If not, remove the adhesive and apply fresh material 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 60 minutes of installation.

Tiling installed with **Adesilex P7** must not be washed or exposed to rain for at least 24 hours and must be protected from frost and strong sun for at least 5-7 days.

## GROUTING AND SEALING

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

## Spot-bonding insulation materials

For spot-bonding sound-deadening or insulation panels, apply **Adesilex P7** with a trowel or a float.

## SET TO LIGHT FOOT TRAFFIC

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

## READY FOR USE

Surfaces are ready for use after approximately 14 days.

## Cleaning

Tools and containers should be cleaned with plenty of water while **Adesilex P7** is still fresh. Surfaces should be cleaned with a damp cloth, before the adhesive dries.

## CONSUMPTION

### Bonding ceramic tiles:

- Mosaics and small sizes  
in general (trowel n. 4): 2 kg/m<sup>2</sup>.
- Normal sizes (trowel n. 5): 2,5-3 kg/m<sup>2</sup>.
- Large sizes, exterior floors  
(trowel n. 6): 4 kg/m<sup>2</sup>.

### Spot-bonding insulation materials:

- Foam, etc.: approx. 0,5-0,8 kg/m<sup>2</sup>.
- Gypsum board panels,  
foamed concrete: approx. 1,5 kg/m<sup>2</sup>.

## PACKAGING

**Adesilex P7** white and grey are available in 25 kg bags.

## STORAGE

**Adesilex P7** can be stored 12 months in a normal environment in original packaging. The product complies with the conditions of Regulation (EC) N° 1907/2006 (REACH), Annex XVII, item 47.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Adesilex P7** contains cement that when in contact with sweat or other body fluids, causes an irritant alkaline reaction and allergic reactions to those predisposed. It can cause eyes damages. During use wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with eyes or skin, wash immediately with plenty of water and seek medical attention.

## TECHNICAL DATA (typical values)

In compliance with:

– European EN 12004 C2T  
– ISO 13007-1 as C2T

### PRODUCT IDENTITY

Consistency:	powder
Colour:	grey or white
Bulk density (kg/m <sup>3</sup> ):	1300
Dry solids content (%):	100
EMICODE:	EC1 R Plus - very low emission

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

Mixing ratio:	100 parts <b>Adesilex P7</b> with 24-26 parts of water by weight for <b>Adesilex P7</b>
Consistency of the mix:	creamy paste
Density of the mix (kg/m <sup>3</sup> ):	1.500
pH of the mix:	13
Pot life:	over 8 hours
Application temperature:	from +5°C to +40°C
Open time (EN 1346):	20 minutes
Adjustability time:	approx. 60 minutes
Ready for grouting on wall:	after 4-8 hours depending on absorbency
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/mm <sup>2</sup> ): – initial bonding after 28 days: – bonding after heat exposure: – bonding after immersion in water: – bonding after freeze/thaw cycles:	1.5 1.4 1.1 1.5
Resistance to alkalis:	excellent
Resistance to oils:	excellent (poor to vegetable oil)
Resistance to solvents:	excellent
Temperature when in use:	from -30°C to +90°C

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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.

## 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)

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MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

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