



# Adesilex P9

**High performance  
cementitious adhesive  
with no vertical slip  
and extended open  
time for porcelain and  
ceramic tiles, mosaics  
and stone materials**



## CLASSIFICATION IN COMPLIANCE WITH ISO 13007-1

Adesilex P9 is an improved (2) slip resistant (T) cementitious adhesive (C) with extended open time (E) classified as C2TE.

## WHERE TO USE

Interior and exterior bonding of porcelain and 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, sound-deadening panels, etc.

## Some application examples

- Bonding porcelain and ceramic tiles and mosaics on the following substrates:
  - conventional renders or cementitious mortar 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 porcelain and ceramic and natural stone tiles, as long as they are well bonded to the substrate and have no cracks.
- Bonding small sized tiles in swimming pools and basins.

## TECHNICAL CHARACTERISTICS

Adesilex P9 is a grey powder composed of cement, fine-aggregates, synthetic resins and special additives,

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 P9** 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;
- extended open time.
- hardens without minimal shrinkage.

## RECOMMENDATIONS

Do not use **Adesilex P9**:

- 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 P9** must be flat, sound, free of loose debris, 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.

# Adesilex P9

Dampen surfaces with water to cool down if they are 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 are treated with **Primer G** or **Eco Prim T**.

## Preparing the mix

Mix **Adesilex P9** with clean water until a smooth, lump-free paste is obtained. Leave to rest approximately 5 minutes and re-stir. Use 7 litres of water for every 20 kg of **Adesilex P9** grey. Mixed this way, **Adesilex P9** has a pot life of approximately 8 hours.

## Applying the mix

**Adesilex P9** 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 tile 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 P9** on the substrate using the straight edge of the trowel. Immediately after, apply the necessary thickness of **Adesilex P9** using a suitable notched trowel, depending on the type and size of the tiles (see "Consumption").

For external ceramic tile floors and walls and when applying in swimming pools and basins filled with water, 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 P9** is approximately 30 minutes. Unfavourable weather conditions (strong sun, 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 45 minutes of installation.

Tiling installed with **Adesilex P9** 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 8 hours and floor joints can be grouted after 12 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 insulating materials

For spot-bonding, sound-deadening or insulating panels, apply **Adesilex P9** with a trowel or a float.

## SET TO LIGHT FOOT TRAFFIC

Floors are set to light foot traffic after approximately 12 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 P9** 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): 5 kg/m<sup>2</sup>.

### Spot-bonding insulating material

- 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 P9** is available in 20 kg bags and 5 kg Alupacks.



Installation of single-fired tile on floor



Installation of single-fired tile on gypsum board wall



## TECHNICAL DATA (typical values)

In compliance with:

- European EN 12004 as C2TE
- ISO 13007-1 as C2TE

### PRODUCT IDENTITY

Type:	powder
Colours:	grey and white
Bulk density (kg/m <sup>3</sup> ):	1,300
Dry solids content (%):	100
EMICODE:	EC1 R Plus - very low emission

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

Mixing ratio:	7 litres of water per 20kg of Adesilex P9
Consistency of mix:	pasty
Density of the mix (kg/m <sup>3</sup> ):	1,500
pH of mix:	13
Pot life of mix:	over 8 hours
Application temperature:	from +5°C to +40°C
Open time (according to EN 1346):	30 minutes
Adjustability time:	45 minutes
Ready for grouting on walls:	after 8 hours depending on absorbency
Ready for grouting on floors:	after 12 hours
Set to light foot traffic:	12 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:	1.5
– bonding after heat exposure:	1.4
– bonding after immersion in water:	1.1
– bonding after freeze/thaw cycles:	1.3
Resistance to alkalis:	excellent
Resistance to oils:	excellent (poor for vegetable oils)
Resistance to solvents:	excellent
Temperature when in use:	from –30°C to +90°C

# Adesilex P9



## STORAGE

Adesilex P9 can be stored 12 months in a normal environment in original packaging.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Adesilex P9 is an irritant which contains cement that when in contact with sweat or other bodily fluids causes an irritant alkaline reaction and allergic reactions to those predisposed. During use wear protective gloves and goggles, and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention. 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)

## 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 or replace requirements per the TDS in force at the time of the MAPEI product installation.*

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This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



**Our Commitment To The Environment**  
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.

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



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