

# ADESILEX P9

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



## CLASSIFICATION IN COMPLIANCE WITH AS ISO 13007

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 all types of ceramic tiles (thin porcelain tiles, single-fired, double fired, clinker, bricks ect.) 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 ceramic tiles, stone materials (non-moisture sensitive) 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** or **Eco Prim T Plus**;
  - 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 both 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 an off-white powder composed of cement, selected sand, 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 tiles are used;
- perfect adherence to all materials normally used in building;
- hardens with minimal shrinkage;
- extended open time.

## RECOMMENDATIONS

**DO NOT** use **Adesilex P9**:

- on precoat and poured concrete walls;
- on walls or floors subject to extreme flexing or vibration (e.g. wood);
- on metal surfaces;
- to install tiles that are larger than 300 x 300 mm (>900 cm<sup>2</sup>) in exteriors or interior waterproofed floor applications.

## 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. 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 Plus**. Existing tiled substrates must be well cleaned and primed with **Eco Prim Grip Plus**.

### 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 28-30 parts of water for every 100 parts by weight of **Adesilex P9** off-white, which is equal to 5.6-6.0 litres of water for every 20 kg bag. Mixed this way **Adesilex P9** has a pot life of approximately 8 hours.

### Applying the mix

Select the appropriate sized notched trowel to achieve maximum adhesive coverage on the back of the tile. Ensure minimum coverage achieved is in accordance with the Australian Standard AS 3958. Using the flat or straight edge of the trowel apply a thin pressure-applied coat to the substrate. Follow immediately with additional adhesive then comb the mortar using the notched side of the trowel to achieve an even setting bed. DO NOT spread more material than can be covered with tiles within the specified open time. 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 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 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 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 P9** is still fresh. Surfaces should be cleaned with a damp cloth before the adhesive dries.



Installation of single-fired tile on floor



Spreading Adesilex P9



Installation of single-fired tile on gypsum board wall

## CONSUMPTION

### Bonding ceramic tiles

A 20 kg bag covers 6 - 7.5m<sup>2</sup> using a 6x6x6 mm square-notched trowel and 4 - 5m<sup>2</sup> using a 10x10x10 mm square-notched trowel.

### 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>

TECHNICAL DATA (typical values) In compliance with: - AS ISO 13007-1 as C2TE	
<b>PRODUCT IDENTITY</b>	
Type:	powder
Colour:	off-white
Bulk density (kg/m <sup>3</sup> ):	1,300
Dry solids content (%):	100
Green Star™:	very low VOC content
<b>APPLICATION DATA (at +23°C and 50% R.H.)</b>	
Mixing ratio:	100 parts of Adesilex P9 with 28-30 parts of water by weight
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 +35°C
Open time:	30 minutes
Adjustability time:	45 minutes
Ready for grouting on walls:	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
<b>FINAL PERFORMANCES</b>	
Bonding strength in compliance with AS ISO 13007 (N/mm <sup>2</sup> ):	1.5
- initial bonding after 28 days:	1.4
- bonding after heat exposure:	1.1
- bonding after immersion in water:	1.5
- bonding after freeze/thaw cycles:	
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



## NOTE

Coverages shown are approximate and are given for estimating purposes only. Actual jobsite converges may vary according to tile size and thickness, job conditions and setting practices.

## PACKAGING

Adesilex P9 is available in 20 kg bags.

## STORAGE

Adesilex P9 can be stored for up to 12 months in a dry, elevated area in the original packaging.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Adesilex P9 contains cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. When applying the product use 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 Safety Data Sheet.

## 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.au](http://www.mapei.com.au)

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