

# ADESILEX P9

High-performance cementitious adhesive with no vertical slip and extended open time for ceramic, vitrified tiles and natural stone materials.



## BENEFITS AND FEATURES

- Easily workable.
- Highly thixotropic; **Adesilex P9** can be applied on a vertical surface without sagging or slipping even when heavy tiles are used.
- Perfect adherence to all materials normally used in building.
- Extended open time.

## 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.

Conformity of **Adesilex P9** is declared in TT certificates n° 25050141/Gi (TUM) and n° 25080230/Gi (TUM) issued by the Technische Universität München laboratory (Germany) and in TT certificates n° 1220.1/10/R03 NPU; 1220.3/10/R03 NPU; 1220.2/10/R03 NPU and 1220.4/10/R03 NPU issued by the ITB Katowice Institute (Poland).

## CLASSIFICATION IN COMPLIANCE WITH IS 15477: 2019

**Adesilex P9** is a high-performance cementitious adhesive for use with ceramic, vitrified tiles and natural stone.

## WHERE TO USE

Interior and exterior bonding of ceramic tiles, vitrified tiles, stone, 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 tiles, vitrified tiles, stone, 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 ceramic, vitrified 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 or white coloured 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 sagging or slipping even when heavy 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 walls or floors subject to extreme flexing or vibration (wood, fibre-cement, etc.);
- on metal surfaces;
- for ceramic and vitrified tiles installations when an adhesive layer thicker than 10 mm is required.

## APPLICATION PROCEDURE

### Preparation of the substrate

All substrates that receive **Adesilex P9** must be flat, sound, and free of loose debris, grease, oils, paints, wax, etc. Cementitious substrates should not continue to shrink after the installation of the ceramic or vitrified tiles, therefore during spring and summer, renders must cure at least 1 week per cm of thickness and cementitious screeds must be cured for at least 28 days, unless special MAPEI binders for screeds such as **Topcem** 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 **Eco Prim T Plus**.

### Preparing the mix

Mix **Adesilex P9** with clean water until a smooth, lump-free paste is obtained. Leave to rest for approximately 5 minutes and re-stir. Use approximately 6.25-7.0 litres of water for each 25 kg bag of powder of grey Adesilex P9 and approximately 7.0- 7.75 litres of water per 25 kg bag of white Adesilex P9 . When mixed as described above, the mix lasts approximately 8 hours.

### Applying the mix

**Adesilex P9** is applied to the substrate using a notched trowel. Choose a trowel in order to obtain an optimal wetting of the back of the tile.

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 or vitrified 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, 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 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 swimming pools can be filled after 21 days.

## CLEANING

Clean tools and containers with water while **Adesilex P9** is still fresh. Clean the surface of tiles with a damp cloth before the adhesive hardens.

## CONSUMPTION

**Approx. 1.2 - 1.4 kg/m<sup>2</sup> per mm of thickness.**

Coverage depends on the substrate flatness and the application method, ensure all surfaces are smooth, even and free from defects.

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 25 Kg bags.

## STORAGE

Adesilex P9 may be stored for 12 months in its original packaging in a dry place.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website [www.mapei.in](http://www.mapei.in).

PRODUCT FOR PROFESSIONAL USE.

## TECHNICAL DATA (typical values)

In compliance with:

- European EN 12004 as C2TE
- ISO 13007-1 as C2TE
- American ANSI A 118.4 - 1999
- IS 15477: 2019 Type 3T

### PRODUCT IDENTITY

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

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

|                                          |                                                                                                                             |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Mixing ratio:                            | 100 parts Adesilex P9 grey with 25-28 parts water by weight<br>100 parts Adesilex P9 white with 28-31 parts water by weight |
| Consistency of mix:                      | pasty                                                                                                                       |
| Density of the mix (kg/m <sup>3</sup> ): | 1550 (±100)                                                                                                                 |
| pH of mix:                               | 13                                                                                                                          |
| Pot life:                                | over 8 hours                                                                                                                |
| Application temperature:                 | from +5°C to +40°C                                                                                                          |
| Open time (acc. ISO 13007):              | > 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 PERFORMANCE

|                                                       |                                                                 |                     |
|-------------------------------------------------------|-----------------------------------------------------------------|---------------------|
| Adhesion according to ISO 13007 (N/mm <sup>2</sup> ): | According to ISO 13007 (N/mm <sup>2</sup> ) minimum requirement | Product Performance |
| – initial bonding after 28 days:                      | 1                                                               | 1.5                 |
| – bonding after heat exposure:                        | 1                                                               | 1.4                 |
| – bonding after immersion in water:                   | 1                                                               | 1.1                 |
| – bonding after freeze/thaw cycles:                   | 1                                                               | 1.5                 |
| Resistance to alkali:                                 | excellent                                                       |                     |
| Resistance to oils:                                   | excellent (poor to vegetable oil)                               |                     |
| Resistance to solvents:                               | excellent                                                       |                     |
| Temperature when in use:                              | from -30°C to +90°C                                             |                     |
| Test Conducted                                        | Requirement as per IS 15477: 2019                               | Product Performance |

|                                        |                               |                |
|----------------------------------------|-------------------------------|----------------|
| Tensile adhesion (N/mm <sup>2</sup> ): |                               |                |
| -Dry Condition                         | Min 1.5                       | Tests Exceeded |
| -Wet Condition                         | Min 1.0                       |                |
| Shear Adhesion (N/mm <sup>2</sup> ):   |                               |                |
| -Dry Condition                         | 1.5                           | Tests Exceeded |
| -Wet Condition                         | 1.0                           |                |
| -Heat Ageing condition                 | 1.0                           |                |
| Slip (mm)                              | Shall not be more than 0.5 mm | 0.31           |

## 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.in](http://www.mapei.in)

## 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.*

*The most up-to-date TDS can be downloaded from our website [www.mapei.in](http://www.mapei.in)*

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