

ADESILEX P9

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



CLASSIFICATION IN COMPLIANCE WITH ISO 13007-1 AND EN 12004

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 ceramic, porcelain 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.
- Interior and exterior bonding of stone materials (provided they are not sensitive to moisture).

Some application examples

- Bonding 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** or **Eco Prim T**;
 - gypsum board;
 - underfloor heating installations;
 - cementitious screeds, as long as they are sufficiently cured and dry.
- Tile-on-tile of existing flooring with tiles up to 900 cm².
- Bonding small-sized ceramic tiles in swimming pools and basins.

TECHNICAL CHARACTERISTICS

Adesilex P9 is a grey or white 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 without appreciable 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 installations that require a nominal adhesive thickness greater than 5 mm.

APPLICATION PROCEDURE

Preparation of the substrate

The substrate must be adequately cured, mechanically sound, free of loose particles, grease, oil, paint, wax and other deleterious material or surface contamination and should be sufficiently dry.

Cement substrate must not be subject to shrinkage after tile installation. In mild weather, renders must have cured at least 1 week for each centimeter of thickness and cementitious screeds must have cured at least 28 days, unless they have been made with MAPEI special binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem**, **Topcem Pronto**.

Surfaces that could become too hot due to exposure to sunlight, consider shading or cooling down with potable water. Gypsum substrate and anhydrite screeds must be perfectly dry (maximum residual moisture 0.5%), sufficiently hard and free of dust. It is absolutely essential that they are treated with **Primer G** or **Eco Prim T**.

Preparation of the mix

Adesilex P9 must be mixed with clean water to obtain a homogenous paste free of lumps; leave to rest for approximately 5 minutes and re-mix, the paste is then ready to use. The quantity of water to be used is 31-33 parts per 100 parts (by weight) equal to 7.75-8.25 L of water for 25 kg of **Adesilex P9** grey and 36-38 parts per 100 parts (by weight) equal to 9-9.5 L of water for 25 kg of **Adesilex P9** white. The mix, produced in this way, is workable for at least 8 hours (at +23°C).

Application of 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 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 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 paragraph").

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.

Installation of the tiles

It is not necessary to wet the tiles before installation; only in the case of very dusty backs is washing recommended, by quickly immersing them in clean water. The tiles must be installed in the normal way, placing them firmly to ensure good contact with the adhesive. The open time of **Adesilex P9** in normal conditions of temperature and humidity, is 30 minutes; unfavorable environmental conditions (strong sunlight, drying wind, high temperature as well as a highly absorbent substrate), could drastically reduce this time to a few minutes.

Therefore one must constantly check that the adhesive has not formed a superficial skin and is still "fresh"; where there is a formation of superficial skin, the adhesive must be reworked with the notched trowel. Wetting the adhesive after it has produced the skin is not recommended because the water forms an anti-adhesive film instead of dissolving it. The "adjustability" of the tiles must be carried out within 60 minutes (at +23°C) after installation.

Tiles installed with **Adesilex P9** must not be subject to running water or rain for at least 24 hours and must be protected from frost and strong sunlight for at least 5-7 days after installation.

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.

GROUTING AND SEALING

Wall joints between the ceramic tiles 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.

Grout with the appropriate MAPEI grout (see Technical Data Sheet of grouts for details).

Spot-bonding insulating materials

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



Installation of single-fired tile on floor



Installation of single-fired tile on wall render



Installation of single-fired tile on gypsum board wall



Adjustability time up to 60 minutes



Exterior laying of strip tiles.
N.B. Completely fill all lugs and ribs



Spot-bonding insulating panels on untreated wall

SET TO LIGHT FOOT TRAFFIC

Floors are set to withstand 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.

CONSUMPTION

Bonding ceramic tiles:

- Mosaics and small sizes in general (trowel n. 4): 2 kg/m²;
- Normal sizes (trowel n. 5): 2.5-3 kg/m²;
- Large sizes, exterior floors (trowel n. 6): 4 kg/m².

Spot-bonding insulating material:

- Foam, etc. approx. 0.5-0.8 kg/m²;
- Gypsum board panels, foamed concrete: approx. 1.5 kg/m².

PACKAGING

Adesilex P9 white and grey are available in 25 kg bags.

STORAGE

When stored in dry conditions in the original, unopened bags, **Adesilex P9** has a shelf life of 12 months. If stored at high temperature and or high humidity conditions the shelf life may be reduced.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instruction on the safe use of our products can be found on the latest version of the Safety Data Sheet available on our website www.mapei.ae

TECHNICAL DATA (typical values) In compliance with: – European EN 12004 as C2TE – ISO 13007-1 as C2TE – American ANSI A 118.4	
PRODUCT IDENTIFICATION	
Type:	powder
Colour:	white or grey
Bulk density (kg/cm ³):	1300
Dry solids content (%):	100
EMICODE:	EC1 Plus - very low emission
APPLICATION DATA at +23°C - 50% R.H.	
Mixing ratio:	100 parts Adesilex P9 with 31-33 parts water by weight for Adesilex P9 grey and 36-38 parts water by weight for Adesilex P9 white
Consistency of mix:	creamy paste
Density of mix (kg/m ³):	1500
pH of mix:	13
Pot life:	over 8 hours
Application temperature:	from +5°C to +40°C
Open time (according to EN 1346):	30 minutes
Adjustability time:	approx. 60 minutes
Ready for grouting on walls:	after 4-8 hours depending on absorbency
Ready for grouting on floors:	after 24 hours
Ready for light foot traffic:	24 hours
Ready for use:	14 days
FINAL PERFORMANCE	
Bonding strength in compliance with EN 1348 (N/mm ²): - 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

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, 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.com.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com

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