



Adesilex P9

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

CLASSIFICATION IN COMPLIANCE WITH EN 12004

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

Adesilex P9 is CE marked, as declared in ITT certificate n° 25050141/Gi (TUM) and Nr. 25080230/Gi (TUM) issued by the Technische Universität München laboratory (Germany).

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 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 tiles up to 900 cm².
- Bonding small sized 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



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Installation of
single-fired tile on floor



Installation of
single-fired tile on
wall render



Installation of
single-fired tile on
gypsum board wall

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 precoat and poured concrete walls.
- On walls or floors subject to extreme flexing or vibration (wood, fibre-cement, etc.)
- On metal surfaces.
- For installations that require an adhesive thickness greater than 5 mm.

APPLICATION PROCEDURE

Preparing the substrate

All substrates that receive **Adesilex P9** must be flat, sound, free of loose detritus, 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 P9** with clean water until a smooth, lump-free paste is obtained. Leave to rest approximately 5 minutes and re-stir. Use 29-31 parts of water for every 100 parts by weight of **Adesilex P9** grey and 30-32 parts water for **Adesilex P9** white, which is equal to 7.25-7.75 litres of water for every 25 kg of grey **Adesilex P9** and 7.5-8 litres of water for every 25 kg of white **Adesilex P9**. 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 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").

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 is it 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 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 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.

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.

TECHNICAL DATA (typical values):

In compliance with:

- European EN 12004 as C2TE
- ISO 13007-1 as C2TE
- American ANSI A 118.4 - 1999
- Canadian 71 GP 30 M type 2

PRODUCT IDENTITY

Type:	powder
Colour:	white or grey
Bulk density (kg/m³):	1300
Dry solids content (%):	100
Storage:	12 months in a cool dry place in original packaging
Hazard classification according to EC 1999/45:	irritant. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
EMICODE:	EC1 R - very low emission
Customs class:	3824 50 90

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

Mixing ratio:	100 parts Adesilex P9 with 29-31 parts water by weight for Adesilex P9 grey and 30-32 parts water by weight for Adesilex P9 white
Consistency of mix:	creamy paste
Density of the mix (kg/m³):	1500
pH of mix:	13
Pot life:	over 8 hours
Application temperature:	from +5°C to +40°C
Open time (acc. 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
Set to light foot traffic:	24 hours
Ready for use:	14 days

FINAL PERFORMANCES

Bonding strength in compliance with EN 1348 (N/mm²):	
– 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:	1.5
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



Adjustability time up to 60 minutes



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

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PACKAGING

Adesilex P9 white and grey are available in 25 kg bags and in 4x5 kg boxes.

STORAGE

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

Manufactured in compliance with the regulations of the 2003/53/EC Directive.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Contains cement that when in contact with sweat or other body fluids produces an irritant alkaline reaction and allergic reactions to those predisposed. Use protective gloves and goggles.

For further information, consult the 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 applications: 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.



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
More than 150 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

Spot-bonding
insulating panels on
untreated wall