

Adesilex P9



**Polymer modified
enhanced
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° 54680102.101 (SFV) issued by the Säurefließner-Vereinigung E.V. Grossburgwedel 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, only with tiles less than 300x300 mm.
 - Cementitious screeds, as long as they are sufficiently cured and dry.
 - Interior painted walls, as long as the paint is firmly anchored and resistant to alkalis.
- Tile on tile of existing flooring with tiles up to 300x300 mm.
- Bonding small format tiles in swimming pools and basins.

TECHNICAL CHARACTERISTICS

Adesilex P9 is a grey or white powder composed of



Adesilex P9

cement, fine-graded aggregates, synthetic resins and special additives developed in the MAPEI Research and Development Laboratories.

A mortar with the following features is obtained when mixed with water:

- Easily workable.
- Highly thixotropic; **Adesilex P9** can be applied on a vertical surface without sagging or slipping even with heavy tiles.
- Perfect adherence to all materials normally used in building.
- Hardens without minimal shrinkage.
- Extended open time.
- Water and frost resistant.

RECOMMENDATIONS

Do not use **Adesilex P9**:

- On precoat and poured concrete walls.
- On walls or floors subject to deflection 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 must be flat, sound, free of loose parts, grease, oils, paints, wax, etc. Cementitious substrates should not continue to shrink after the installation of the ceramic tiles. Renders must cure at least 2 weeks and cementitious screeds must be cured at least 3-4 weeks, unless special MAPEI binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto** have been used.

Dampen the 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 laitance. It is essential that they be treated with **Primer G** or **Mapecrim SP**. In areas subject to 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 26-30 parts water for every 100 parts by weight of **Adesilex P9**, which is equal to 5.2-6.0 litres of water for every 20 kg of powder. 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 achieve 65-70% coverage of the back of the tiles for internal walls and 100% for floor areas and all external works/wet areas.

To obtain good adhesion, spread a first thin layer of **Adesilex P9** on the substrate using the straight edge of the trowel. Immediately, 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 tiling 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

Do not wet the tiles before installing. Only when dusty is it recommended to dip the tiles in clean water. Dry before fixing.

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 to just a few minutes.

It is therefore necessary to check carefully in order to ensure that a skin has not formed on the surface of the adhesive. If not, re-freshen the adhesive by re-spreading with a notched trowel.

It is not recommended to wet the adhesive with water once a skin has formed because, the water will form an anti-adhesive film. If necessary, tiles should be adjusted within 60 minutes after 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.

LIGHT FOOT TRAFFIC

Floors are able to take 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

PACKAGING

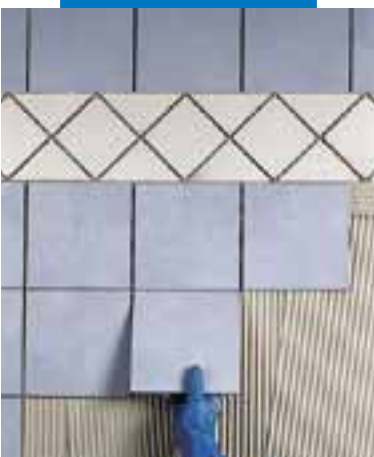
Adesilex P9 white and grey are available in 20 kg bags and in 4x5 kg boxes.



Installation of single-fired tile on floor



Installation of single-fired tile on wall render



Installation of single-fired tile on gypsum board wall

TECHNICAL DATA (typical values):

In compliance with:

European EN 12004 as C2TE
DIN 18156-M
European UEAlc
BS 5980-1980 type 1 class AA
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 solid content (%):	100
Storage:	12 months in a cool dry place in original packaging
Hazard classification according to EC 99/45:	irritant. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	3824 50 90

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

Mixing ratio:	100 parts Adesilex P9 White with 28-30 parts water by weight. 100 parts Adesilex P9 Grey with 26-28 parts water by weight.
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. EN1346):	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:	1.8
– bonding after heat exposure:	1.8
– 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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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 THE 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.

FOR PROFESSIONALS.

WARNING

Although the technical details and

recommendations contained in this product report 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.

All relevant references of the product are available upon request.



Spot-bonding insulating panels on untreated wall

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