

ADESILEX P9 EXPRESS E

High-performance, rapid-setting cementitious adhesive with extended open time for bonding ceramic tiles



BENEFITS AND FEATURES

- Excellent adhesion
- Extended open time
- Good workability and fast-track
- Extended pot life (45 min)
- Ready for foot traffic in just 4 hours
- Ready for use in 24h

CLASSIFICATION ACCORDING TO EN 12004

Adesilex P9 Express is a C2FE class cementitious (C), improved (2), rapid (F), with extended open time (E) adhesive.

The conformity of **Adesilex P9 Express** is certified by the **TT certificates No. 18/17627-2116 and No. 18/17627-2117** issued by the **LGAI Technological Center S.A. Laboratory**.

WHERE TO USE

Bonding all types of ceramic tiles and mosaics on internal and external floors and walls.

Adesilex P9 Express is a mixture of rapid-setting hydraulic binders but, since it is not a rapid-drying product, it is only suitable for natural stone that does not suffer from staining caused by moisture.

Some application examples

- Bonding ceramic tiles, stone (if not susceptible to staining caused by damp) and mosaics on the following types of substrate:
 - walls with natural finish render or cementitious mortar;
 - internal cellular cement block walls;
 - gypsum and anhydrite treated with **Primer G**;
 - plasterboard;
 - heated floors;

- cementitious screeds, once sufficiently cured and dry;
- internal painted walls; make sure the paint is well bonded.
- Repair work on floors in areas exposed to high foot traffic, in commercial settings and when floors need to be put back into service quickly.
- Rapid bonding work in bathrooms, showers, kitchens, commercial and public areas and on terraces or balconies.
- Overlaying old floors with new, non-absorbent flooring when the setting time of other types of cementitious adhesive is too long.
- Bonding small format tiles in swimming pools and tubs.

TECHNICAL CHARACTERISTICS

Adesilex P9 Express is a white- or grey-coloured powdered adhesive made from a mixture of special cement, graded aggregates, synthetic resin and set accelerators that allow the adhesive to form a strong bond within just 3-4 hours of application. As a result, floor and wall coverings bonded with **Adesilex P9 Express** are ready to be used extremely quickly. Floors set to foot traffic after just 4 hours and may be put into service after 24 hours. Once hardened, **Adesilex P9 Express** is resistant to freezing weather and water. When mixed with water, it forms mortar with the following characteristics:

- good workability;
- extended maintenance of workability in the bucket (45 minutes);
- perfect bonding to all materials normally used in the building industry;
- hardening with no significant shrinkage;
- extended open time;
- the white version has very high white point.

The environmental impact of **Adesilex P9 Express** during its entire life cycle has been measured using the LCA (Life Cycle Assessment) method and the results are reported in the EPD (Environmental Product Declaration in compliance with ISO 14025 and EN 15804 standards) N° S-P-01111, certified and published by EPD International. **Adesilex P9 Express** has very low emission of VOC (Volatile Organic Compounds), thereby safeguarding the health of both those who apply the product and those who use areas in which it is applied, and is certified EC1 Plus.

Adesilex P9 Express helps earn important LEED credits.

RECOMMENDATIONS

- Sand anhydrite screeds, remove all dust and prime with **Eco Prim T** diluted 2:1 with water or with **Primer G** before applying the cementitious adhesive.
- Prime gypsum and plasterboard substrates with **Primer G** or **Eco Prim T** before applying the cementitious adhesive.
- Do not apply on floors or walls subject to large movements or vibrations (in wood, cement-fibre, etc.).
- Do not use on prefabricated concrete structures or on cast concrete if not fully cured.
- Do not use for marble or artificial engineered stone subject to large movements in moist conditions (green marble, certain types of slate and sandstone categorised as class C dimensional stability according to MAPEI standards). In these cases, use **Keralastic**, **Keralastic T** or **Kerapoxy**.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates on which **Adesilex P9 Express** is to be applied must be flat, strong, have no crumbling areas and have no traces of grease, oil, varnish, wax, etc. **Adesilex P9 Express** may take longer to set on damp substrates. Cementitious substrates must not shrink after bonding the tiles. Therefore, in good weather, render must be cured for at least one week per cm of thickness and cementitious screeds must be cured for at least 28 days, unless they are made from special MAPEI screed binders such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto**. If the surface is too hot due to direct sunlight, cool it down with water.

Gypsum substrates and anhydrite screeds must be perfectly dry (maximum residual moisture content 0.5% and 0.3% for heated screeds), strong, free of all traces of dust and treated with **Primer G** or **Eco Prim T** before applying **Adesilex P9 Express**. Use **Mapegum WPS** or products from the **Mapelastic** range to waterproof substrates in damp surroundings.

Preparation of the mix

A 25 kg bag of grey **Adesilex P9 Express** should be mixed with approx. 6.3-6.8 litres of water.

A 25 kg bag of white **Adesilex P9 Express** should be mixed with approx. 6.5-7 litres of water.

Pour the **Adesilex P9 Express** into a container with clean water while mixing and keep mixing with an electric mixer to form a smooth, lump-free mix.

Leave it to stand for a few minutes and mix briefly again before application.

The adhesive must be used within 45 minutes of mixing.

Spreading the mix

Apply **Adesilex P9 Express** on the substrate using a notched trowel. Use a trowel that allows a perfect wetting of the back of the tiles.

To guarantee a good bond, apply a thin layer of **Adesilex P9 Express** on the substrate using the smooth edge of the trowel and then immediately apply a second layer of **Adesilex P9 Express** to form the thickness required using a notched spreader suitable for the type and size of tiles to be bonded.

If the substrate is particularly absorbent and the surrounding temperature is high, it is recommended to wet the substrate before spreading **Adesilex P9 Express** to extend its open time.

Bonding tiles

There is no need to wet the tiles before installing them. However, if the back faces are particularly dusty, rinse them by dipping them in clean water.

The open time for **Adesilex P9 Express** is approximately 30 minutes in normal temperature and humidity conditions. When the surrounding conditions are not ideal (direct sunlight, dry wind, high temperatures, etc.), or if the substrate is particularly absorbent, this time will be considerably reduced.

Keep checking the adhesive applied on the substrate to make sure surface skin does not form and that it is still fresh. If surface skin forms, spread the adhesive again with the notched trowel. Do not wet the adhesive if surface skin forms. Water does not dissolve the skin and impedes adhesion.

Floor and wall coverings bonded with **Adesilex P9 Express** must be protected from water and rain for at least 3 hours and from direct sunlight and freezing weather for at least 24 hours after application.

Grouting and sealing

Fill the grout lines between the tiles after 4 hours with specific MAPEI cementitious or epoxy MAPEI grouting mortar, available in a wide range of colours. Seal expansion joints with specific MAPEI sealant.

Set to foot traffic

Floors set to foot traffic after around 4 hours.

Putting into service

Surfaces may be put into service after approximately 24 hours.



Installation of stoneeffect floor tiles
over existing flooring

CLEANING

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

CONSUMPTION

2.5-5 kg/m².

PACKAGING

Grey and white **Adesilex P9 Express** is supplied in 25 kg paper bags.

STORAGE

25 kg paper bags of **Adesilex P9 Express** may be stored for 12 months in normal temperature and humidity conditions.

This product conforms to the prescriptions of Reg. (EC) N. 1907/2006 (REACH) - Annex XVII, item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Adesilex P9 Express contains cement that, when in contact with sweat or other body fluids, causes an irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes. During use wear 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.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

Complies with the following standards:

- EN 12004 (C2FE)
- ISO 13007-1 (C2FE)

PRODUCT IDENTITY

Consistency:	powder
Colour:	white or grey
Bulk density (kg/m ³):	1300
Dry solids content (%):	100
EMICODE:	EC1 Plus - very low emission

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

Mixing ratio:	100 parts of Adesilex P9 Express with 25-27 parts of water by weight (grey) or 100 parts of Adesilex P9 Express with 26-28 parts of water by weight (white)
Consistency of mix:	paste

Density of mix (kg/m ³):	1500
pH of mix:	13
Pot life of mix:	45 mins.
Application temperature:	+5°C to +30°C
Open time:	30 mins.
Adjustment time:	15 mins.
Grouting joints in wall tiles:	after 4 hours
Grouting joints in floor tiles:	after 4 hours
Set to foot traffic:	after 4 hours
Ready to use:	after 24 hours

FINAL PERFORMANCES

Adhesion (N/mm ²):	
– initial bond strength (after 28 days):	1.8
– bond strength after application of heat source:	1.5
– bond strength after immersion in water:	1.1
– bond strength after freeze-thaw cycles:	1.3
– bond strength after 6 hours:	0.6
Resistance to alkalis:	excellent
Resistance to oils:	excellent (poor resistance to vegetable oils)
Resistance to solvents:	excellent
Service temperature:	-30°C to +90°C

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

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.com.

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

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