ADESILEX P9 EXPRESS

High-performance, fast-setting cementitious adhesive with no vertical slip for ceramic tiles and stone materials





CLASSIFICATION IN COMPLIANCE WITH ISO 13007-1

Adesilex P9 Express is an improved (2), fast-setting (F) cementitious adhesive (C) slip-resistant (T) of class C2FT.

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, porcelain, 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** as long as they are sufficiently dry and cured
  · Gypsum board or other building board types after having first checked primer requirements with MAPEI technical representatives
  · Underfloor heating/cooling installations
  · Cementitious screeds, as long as they are sufficiently cured and dry
· Tile on the tile of existing flooring with tiles up to 900 cm^2
· Bonding small-sized ceramic tiles in swimming pools and basins

TECHNICAL CHARACTERISTICS

Adesilex P9 Express is a grey 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 Express** can be applied on a vertical surface without sagging or slipping even when heavy or large format tiles are used
· Perfect adherence to all materials normally used in building
· Hardens without appreciable shrinkage

RECOMMENDATIONS

Do not use **Adesilex P9 Express:**

· On walls or floors subject to extreme flexing or vibration (wood, fiber-cement, etc.)
· On metal surfaces

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 substrates must not be subject to shrinkage after tile installation. In mild weather, renders must have cured for at least 1 week for each centimeter of thickness and cementitious screeds must have cured for 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**. Areas subject to high moisture content should be primed with **Primer S**.

Areas exposed to moisture during their service life should be treated with MAPEI waterproof products such as **Mapegum WPS**, **Mapelastic** or **Mapelastic Smart**.

Further technical recommendations can be obtained from the local MAPEI representative.

Preparation of the mix

While stirring, pour **Adesilex P9 Express** into a rust-free container with approximately 21-23 per 100 parts (by weight) of clean water equal to 5.25-5.75 litres of water per 25 kg of **Adesilex P9 Express**. Mix, preferably with a low-speed mixer, to obtain a homogeneous, creamy paste and lump-free mix; leave to rest for approximately 5 minutes and re-mix, the paste is then ready to use. The mix, produced in this way, is workable for at least 60 minutes (at +23°C).

Applying the mix

Adesilex P9 Express is applied to the substrate using a notched trowel. Choose a trowel suitable to ensure the back of the tile is covered by at least 65-70% of adhesive 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 Express** on the substrate using the straight edge of the trowel. Immediately after, apply the necessary thickness of **Adesilex P9 Express** 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, it is essential to spread the adhesive to the back of the tile (back ┐buttering) in order to ensure complete contact.

Installing 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 Express** in normal conditions of temperature and humidity is 20 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 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 15 minutes (at +23°C) after installation.
Tiles installed with **Adesilex P9 Express** must not be subject to running water or rain for at least 24 hours and must be protected from direct sunlight for at least 5-7 days after installation.

Cleaning

Tools and containers should be cleaned with plenty of water while **Adesilex P9 Express** 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 hours, floor joints can be grouted after 6 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 Express** with a trowel or a float.

Set to light foot traffic

Floors are set to withstand light foot traffic after approximately 6 hours.

Ready for use
Surfaces are ready for use after approximately 3 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

PACKAGING

Adesilex P9 Express is available in grey in 25 kg bags.

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Adesilex P9 Express contains cement powders which, when mixed with water or upon becoming damp, release alkalis that can be irritant to the skin. During use, avoid inhalation of the dust and contact with skin and or eyes. Wear suitable protective clothing such as eye protection and gloves. In case of contact with the skin or eyes rinse with plenty of clean water.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values) **In compliance with:** **– European EN 12004 as C2FT** **– GSO : ISO 13007-1 as C2FT** **– American ANSI A 118.4 - 1999** **– Canadian 71 GP 30 M type 2**	
PRODUCT IDENTIFICATION	
Consistency:	powder
Colour:	grey
Bulk density (kg/m³):	1300
Solid contents (%):	100
EMICODE:	EC1 R - very low emission
APPLICATION DATA (at +23°C and 50% R.H.)	
Mixing ratio:	21-23 parts of water per 100 parts of **Adesilex P9 Express**
Consistency of the mix:	paste
Density of the mix (kg/m³):	1590
pH reaction of the mix:	13
Pot life:	60 minutes

Application temperature:	from +5°C to +40°C
Open drying time (according to EN 1346):	approx. 20 minutes
Tile adjustment possible within:	approx. 15 minutes
Grouting on walls:	after 4 hours
Grouting on floors:	after 6 hours
Set to light foot traffic:	after 6 hours
Ready for use:	after 3 days
FINAL PERFORMANCE	
Adhesion (according to EN 1348) (N/mm²): **– initial (after 28 days at temp. +23°C, H.R. 50%):** **– after after heat ageing:** **– after water immersion:** **– after freeze/thaw cycles:**	 1.4 1.5 1.1 1.3
Resistance to alkalis:	excellent
Resistance to oils:	excellent (poor for vegetable oils)
Resistance to solvents:	excellent
Resistance to temperature:	from -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.

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

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