



Adesilex P25



Ready for use paste adhesive, with no vertical slip and extended open time, for ceramic tiles



CLASSIFICATION IN COMPLIANCE WITH EN 12004

Adesilex P25 is a slip resistant (T), normal (1) dispersion adhesive (D) with extended open time (E), of classified as D1TE.

WHERE TO USE

- Indoor bonding of ceramic tiles and ceramic mosaics of every type on walls, also on slightly deformable surfaces.
- Spot-bonding insulating materials such as expanded polystyrene and polyurethane, rock and glass wool, wood-cement panels, foamed-concrete elements, sound deadening panels, etc.

Some application examples

- Absorbent tiles on precast or cast concrete walls.
- Tiles on gypsum-plasters, sprayed gypsum and precast panels.
- Tiles on gypsum-board walls.
- Absorbent tiles on painted walls.
- Absorbent tiles on old tiles.
- Large format tiles on walls.
- Installation of insulating panels on plaster.
- Installation of expanded polystyrene ceilings.

TECHNICAL CHARACTERISTICS

Adesilex P25 is a water-dispersion adhesive based on acrylic resins, fine-graded mineral fillers and various admixtures.

Adesilex P25 is ready-to-use: it is a viscous paste but easily trowellable even on vertical surfaces, and has an extended open time. Once fixed, the tiles adhere immediately thanks to the excellent initial grab.

Adesilex P25 sets by means of the evaporation of its water content, until it forms an extremely strong bond that resists all the normal vibrations to which building materials are subject.

Although the water resistance of **Adesilex P25** is suitable for application in private showers and bathrooms, it is lower than cement-based adhesives.

RECOMMENDATIONS

Do not use **Adesilex P25** in the following cases:

- for outdoor or continuous immersion applications (swimming pools, reservoirs, etc.);
- on metal surfaces;
- for the installation of non-absorbent tiles on non-absorbent substrates;
- for the installation of natural stones, especially light coloured limestones (e.g. Carrara marble).

APPLICATION PROCEDURE

Preparing the substrate

Substrates must be consistent, free of oil, grease, wax, crazing, loose plaster, laitance and also free from residual or permanent moisture.

Cementitious substrates must be dry (as an indication allow 1 week of drying time for each centimetre thickness). Where this is not observed, **Adesilex P25** will not have a correct setting time.

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Adesilex P25 can be used on gypsum supports and similar materials without priming as long as the surface is dry and solid.

Adesilex P25 is also ideal for bonding absorbent ceramic tiles on painted or enamelled walls and walls painted with water-based or oil paint, as long as the paint is firmly anchored to the surface. Application to walls whitewashed with lime is not advisable.

Applying the adhesive

Apply **Adesilex P25** on the substrate with a notched trowel. To choose the right trowel, follow the general rule of selecting one that gives a coverage to at least 65% of the back of the tile:

- for mosaics up to 5x5 cm, the MAPEI square-notched trowel no. 4 is recommended (consumption about 1.5 kg/m²);
- for normal ceramic wall tiles, the MAPEI V-notched trowel no. 5 is recommended (consumption about 2.5 kg/m²);
- for very irregular surfaces and tiles with high ribs or lugs, the MAPEI V-notched trowel no. 6 is recommended (consumption about 4 kg/m²).

The open time of **Adesilex P25** in normal temperature and humidity conditions, is approximately 35-40 minutes. The tiles must be laid within this time and particular attention must be paid as regards to the amount of adhesive used (4-6 m² in a single application). Should the adhesive form a skin, the surface must be re-trowelled. Do not work at temperatures below +5°C.

Installing the tiles

It is not necessary to wet the tiles before laying; if, however, the backs are very dusty, they should be quickly dipped in clean water. The tiles should be applied using firm pressure to ensure good contact with the adhesive.

Any adjustment must be carried out within 40 minutes. Tiles bonded with **Adesilex P25** should not be exposed to water for at least 10 days after fixing.

Bonding insulating materials

Insulating panels, decorative ceiling tiles, etc. can all be applied by either spot-bonding or full-bonding.

Apply enough **Adesilex P25** with a notched trowel, an ordinary trowel or other suitable tool to ensure good bonding. The various materials have to be applied under firm pressure to ensure good contact with **Adesilex P25**.

GROUTING AND SEALING

Joints can be grouted after 24 hours with MAPEI cement or epoxy grouts, available in different colours.

Expansion joints must be sealed with the special MAPEI sealants.

READY FOR USE

Surfaces are ready for use after 7-14 days, depending on the absorption of the surface.

Cleaning

While it is still fresh, **Adesilex P25** can be cleaned off the tiles with a damp sponge. Tools, hands and materials coated with **Adesilex P25** can be cleaned easily with water as long as the adhesive is fresh. When dry, it can be cleaned off with petrol, acetone or turpentine based products.

CONSUMPTION

Bonding ceramic

mosaics: 1.5 kg/m²
(trowel no. 4)

15x15 cm tiles on normal rendering: 2.5 kg/m²
(trowel no. 5)

15x15 cm tiles on gypsum or very smooth surfaces: 1.8 kg/m²
(trowel no. 4)

Bonding insulating materials

spot-bonding foam materials: 0.5-0.8 kg/m²

bonding foamed concrete elements: 1.5 kg/m²

full bonding on rough surfaces: 2.5 kg/m²

PACKAGING

Adesilex P25 is supplied in: 25 kg, 12 kg and 5 kg plastic buckets.

STORAGE

Adesilex P25 can be stored 24 months in the original packaging.

SAFETY INSTRUCTIONS FOR THE PREPARATION AND APPLICATION

Adesilex P25 is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions for handling of chemical products.

For further and complete information about the safe use of our product please refer to the latest version of our Material 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 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**

TECHNICAL DATA (typical values)

In compliance with:

– European EN 12004 as D1TE

PRODUCT IDENTITY

Consistence: thick paste

Colour: white

Density (g/cm³): 1.7

Dry solids content (%): 80

Brookfield viscosity (mPa-s): approx. 900

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

Application temperature range: from +5°C to +35°C

Open time (according to EN1346): > 30 minutes

Adjustability time: 40 minutes

Grouting: after 24 hours

Ready for use: after 7-14 days depending on the absorption of the surface

FINAL PERFORMANCES

Shear adhesion strength according to EN 1324 (N/mm²):
– initial: 1.5
– after heat ageing: 2.5

Resistance to moisture: fair

Resistance to ageing: excellent

Resistance to solvents and oils: poor

Resistance to acids and alkalis: poor

Temperature when in use: from -30°C to +90°C

Deformability: deformable



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