



# 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 class D1TE.

### **WHERE TO USE**

- Indoor bonding of ceramic tiles and ceramic mosaics of every type on walls and ceilings, 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 cast concrete walls;
- tiles on gypsum-plasters, sprayed gypsum and prefabricated panels;
- tiles on gypsum-board walls;
- absorbent tiles on painted walls;
- absorbent tiles on old tiles;
- large size 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 additives.

**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 the water it contains, 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 fair enough 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 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/m<sup>2</sup>);
- for normal ceramic wall tiles, the MAPEI V-notched trowel no. 5 is recommended (consumption about 2.5 kg/m<sup>2</sup>);
- for very irregular surfaces and tiles with high ribs or lugs, the MAPEI V-notched trowel no. 6 is recommended (consumption about 4 kg/m<sup>2</sup>).

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 the amount of adhesive used (4-6 m<sup>2</sup> in one go). 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 a 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 a 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.

## CONSUMPTION

### Bonding ceramic

mosaics: 1.5 kg/m<sup>2</sup>  
(trowel no. 4)

15x15 cm tiles on normal rendering: 2.5 kg/m<sup>2</sup>  
(trowel no. 5)

15x15 cm tiles on gypsum or very smooth surfaces: 1.8 kg/m<sup>2</sup>  
(trowel no. 4)

### Bonding insulating materials

spot-bonding foam materials: 0.5-0.8 kg/m<sup>2</sup>

bonding foamed concrete elements: 1.5 kg/m<sup>2</sup>

full bonding on rough surfaces: 2.5 kg/m<sup>2</sup>

## 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 hazardous according to the current laws on the classification of the mixtures. It is however recommended to use the normal precautions for handling chemical products. The safety data sheet is available upon request for professional users.

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**

## TECHNICAL DATA (typical values)

In compliance with:

- European EN 12004 as D1TE
- American ANSI A 118.3 - 1999
- Canadian 71 GP 29 M

### PRODUCT IDENTITY

<b>Consistence:</b>	thick paste
<b>Colour:</b>	white
<b>Density (g/cm<sup>3</sup>):</b>	1.70
<b>Dry solid content (%):</b>	84
<b>Brookfield viscosity (mPa·s):</b>	approx. 800000
<b>Storage:</b>	24 months in original sealed container. Avoid prolonged storage in frost.
<b>Hazard classification according to EC 99/45:</b>	none. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
<b>Customs class:</b>	3506 91 00

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

<b>Application temperature range:</b>	from +5°C to +35°C
<b>Open time (according to EN1346):</b>	> 30 minutes
<b>Adjustability time:</b>	40 minutes
<b>Grouting:</b>	after 24 hours
<b>Ready for use:</b>	after 7-14 days depending on the absorption of the surface

### FINAL PERFORMANCES

<b>Shear adhesion strength according to EN 1324 (N/mm<sup>2</sup>):</b> - initial: - after heat ageing:	1.3 2.0
<b>Resistance to moisture:</b>	fair
<b>Resistance to ageing:</b>	excellent
<b>Resistance to solvents and oils:</b>	poor
<b>Resistance to acids and alkalis:</b>	poor
<b>Temperature when in use:</b>	from -30°C to +90°C
<b>Deformability:</b>	highly deformable

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**BUILDING THE FUTURE**

## MAPEI GROUP CERTIFIED MANAGEMENT SYSTEMS (Quality, Environment and Safety)

CERTQUALITY No. 250	The Mapel Environmental Management System <b>ISO 14001</b> Plant in Bolzano di Melegnano CERTQUALITY No. 1230	The Mapel Environmental Management System <b>ISO 14001</b> Plant in Latis CERTQUALITY No. 8127	EMAS VERIFIED ENVIRONMENTAL MANAGEMENT SYSTEM PLANT IN BOLOGNA	OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS <b>OHSAS 18001</b> CERTIFIED BY CERTQUALITY	CERTQUALITY No. 6853	CERTQUALITY No. 3358	ITC No. 03 0063 SJ	
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