



# Adesilex P7

**High-performance  
cementitious adhesive  
with no vertical slip  
for ceramic and  
porcelain tiles**



## CLASSIFICATION IN COMPLIANCE WITH ISO 13007-1 AND EN 12004

Adesilex P7 is an improved (2) slip resistant (T) cementitious adhesive (C) classified as C2T.

## WHERE TO USE

Interior and exterior bonding of ceramic tiles, porcelain and mosaics on floors, walls and ceilings. Also suitable for wet areas and 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, porcelain tiles and mosaics on the following substrates:

- conventional renders or cementitious mortar on walls
- interior aerated concrete block walls
- gypsum or anhydrite after having first applied **Primer G**
- gypsum board
- cementitious screeds, as long as they are sufficiently cured and dry
- interior painted walls, as long as the paint is firmly anchored
- Tile on tile of existing flooring with tiles up to 900 cm<sup>2</sup>
- Bonding on irregular floor substrates and renders, without levelling, to a thickness of 15 mm

## TECHNICAL CHARACTERISTICS

Adesilex P7 is a grey or white powder composed of

cement, fine-aggregates, synthetic resins and special admixtures, 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 P7** can be applied on a vertical surface without slumping or slipping even when heavy tiles are used
- perfect adherence to all materials normally used in building
- hardens with minimal shrinkage.

## RECOMMENDATIONS

Do not use **Adesilex P7**:

- on precast and poured concrete walls
- on walls or floors subject to extreme flexing or vibration (wood, fibre-cement, etc.)
- on metal surfaces

## APPLICATION PROCEDURE

### Preparing the substrate

All substrates that receive **Adesilex P7** must be flat, sound, free of loose detrits, grease, oils, paints, wax, etc.

Cementitious substrates should not continue to shrink after the installation of the ceramic tiles, therefore during spring and summer, renders must cure at least 1 week per cm of

thickness and cementitious screeds must be cured at least 28 days, unless special MAPEI binders for screeds such as **Mapecem**, **Mapecem Pronto**, **Topcem** or **Topcem Pronto** have been used.

Dampen surfaces with water to cool down if they should be too warm or exposed to direct sunlight.

Surface that could become too hot due to exposure to sunlight, consider shading or cooling down with potable water.

Gypsum substrates and anhydrite screeds must be perfectly dry (max. residual moisture 0.5%), sufficiently hardened and free from dust. It is absolutely essential that they are treated with **Primer G** or **Ecoprim T**. In areas subject to extreme dampness prime the substrate with **Primer S**.

### Preparing the mix

Mix **Adesilex P7** with clean water until a smooth, lump-free paste is obtained. Leave to rest approximately 5 minutes and re-stir. Use 26-28 parts of water for every 100 parts by weight of **Adesilex P7**, which is equal to 6.5-7.0 litres of water for every 25 kg of **Adesilex P7**. Mixed this way, **Adesilex P7** has a pot life of approximately 8 hours.

### Applying the mix

**Adesilex P7** is applied to the substrate using a notched trowel. Choose a trowel in order to wet the adhesive 65-70% of the back of the tiles 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 P7** on the substrate using a straight edge of the trowel. Immediately after, apply the necessary thickness of **Adesilex P7** using a suitable notched trowel, depending on the type and size of the tiles (see "Consumption").

For external ceramic tile floors and walls, tanks and swimming pools, spread the adhesive on the back of the tile (backbuttering) 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.

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 P7** is approximately 20 minutes. Unfavourable weather conditions (strong sun, drying wind,

high temperatures, etc.) or a highly absorbent substrate can reduce the open time even to just a few minutes.

It is therefore necessary to carefully check in order to ensure that a skin does not form on the surface of the spread adhesive, which should stay fresh. If not, remove the adhesive and apply fresh material with a notched trowel.

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

Tiling installed with **Adesilex P7** 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.

### CLEANING

Tools and containers should be cleaned with plenty of water while **Adesilex P7** is still fresh. Surfaces should be cleaned with a damp cloth, before the adhesive dries.

### 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 insulation materials

For spot-bonding sound-deadening or insulation panels, apply **Adesilex P7** with a trowel or a float.

### SET TO LIGHT FOOT TRAFFIC

Floors are set to light foot traffic after approximately 24 hours.

### READY FOR USE

Surfaces are ready for use after approximately 14 days.

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### CONSUMPTION

Bonding ceramic tiles:

- Mosaics and small sizes
- in general (trowel n. 4): 2 kg/m<sup>2</sup>
- Normal sizes (trowel n. 5): 2.5-3 kg/m<sup>2</sup>
- Large sizes, exterior floors (trowel n. 6): 4 kg/m<sup>2</sup>

### Spot-bonding insulation materials:

- Foam, etc.: approx. 0.5-0.8 kg/m<sup>2</sup>
- Gypsum board panels,
- foamed concrete: approx. 1.5 kg/m<sup>2</sup>

### PACKAGING

**Adesilex P7** white and grey are available in

**TECHNICAL DATA (typical values)**

In compliance with:

- European EN 12004 C2T
- ISO 13007-1 as C2T
- American ANSI A 118.4

**PRODUCT IDENTITY**

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

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

<b>Mixing ratio:</b>	100 parts <b>Adesilex P7</b> with 26-28 parts of water by weight for <b>Adesilex P7</b>
<b>Consistency of the mix:</b>	creamy paste
<b>Density of the mix (kg/m<sup>3</sup>):</b>	1.600
<b>pH of the mix:</b>	13
<b>Pot life:</b>	over 8 hours
<b>Application temperature:</b>	from +5°C to +40°C
<b>Open time (EN 1346):</b>	20 minutes
<b>Adjustability time:</b>	approx. 60 minutes
<b>Ready for grouting on wall:</b>	after 4-8 hours depending on absorbency
<b>Ready for grouting on floors:</b>	after 24 hours
<b>Set to light foot traffic:</b>	24 hours
<b>Ready for use:</b>	14 days

**FINAL PERFORMANCES**

<b>Bonding strength in compliance with EN 1348 (N/mm<sup>2</sup>):</b> <ul style="list-style-type: none"><li>- initial bonding after 28 days:</li><li>- bonding after heat exposure:</li><li>- bonding after immersion in water:</li><li>- bonding after freeze/thaw cycles:</li></ul>	<ul style="list-style-type: none"><li>1.4</li><li>1.1</li><li>1.1</li><li>1.5</li></ul>
<b>Resistance to alkalis:</b>	excellent
<b>Resistance to oils:</b>	excellent (poor to vegetable oil)
<b>Resistance to solvents:</b>	excellent
<b>Temperature when in use:</b>	from -30°C to +90°C
<b>VOC:</b>	0 g/l

# Adesilex P7



25 kg bags.

## STORAGE

Adesilex P7 can be stored 12 months in a normal environment in original packaging.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Adesilex P7 is an irritant containing cement that when in contact with sweat or other body fluids causes irritant alkaline reactions and allergic reactions to those predisposed. 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 Material Safety Data Sheet.

## IMPORTANT NOTES

*Whilst we try to ensure that any advice, recommendations or information given in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is therefore important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that*

*our latest product data and safety information sheets have been consulted prior to use.*

**Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)**

## LEGAL NOTICE

**The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, 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](http://www.mapei.com).**

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



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



**Our Commitment To The Environment**  
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

  
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