

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 cm²
- 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

Preparation of 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**.

Preparation of 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 L of water for every 25 kg of **Adesilex P7**. Mixed this way, **Adesilex P7** has a pot life of approximately 8 hours.

Application of 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 (back-buttering) in order to ensure complete contact.

Installation of 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.

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

Spot-bonding insulation materials:

- Foam, etc.: approx. 0.5-0.8 kg/m²
- Gypsum board panels, foamed concrete: approx. 1.5 kg/m²

PACKAGING

Adesilex P7 white and grey are available in 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.

TECHNICAL DATA (typical values) In compliance with: – European EN 12004 C2T – ISO 13007-1 as C2T – American ANSI A118.4	
PRODUCT IDENTIFICATION	
Consistency:	powder
Colour:	grey or white
Bulk density (kg/m ³):	1300
Dry solids content (%):	100
EMICODE:	EC1 R PLUS - very low emission
APPLICATION DATA (at +23°C and 50% R.H.)	
Mixing ratio:	100 parts Adesilex P7 with 26-28 parts of water by weight for Adesilex P7
Consistency of the mix:	creamy paste
Density of the mix (kg/m ³):	1600
pH of the mix:	13
Pot life:	over 8 hours
Application temperature range:	from +5°C to +40°C
Open time (EN 1346):	20 minutes

Adjustability time:	approx. 60 minutes
Ready for grouting on wall:	after 4-8 hours depending on absorbency
Ready for grouting on floors:	after 24 hours
Set to light foot traffic:	24 hours
Ready for use:	14 days
FINAL PERFORMANCE	
Bonding strength in compliance with EN 1348 (N/mm ²):	
- initial bonding after 28 days:	1.4
- bonding after heat exposure:	1.1
- bonding after immersion in water:	1.1
- bonding after freeze/thaw cycles:	1.5
Resistance to alkalis:	excellent
Resistance to oils:	excellent (poor to vegetable oil)
Resistance to solvents:	excellent
Temperature when in use:	from -30°C to +90°C
VOC:	0 g/l

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

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.

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

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

61-12-2017 (UAE)

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