



Adesilex LC/R

**Fast-setting
solvent-free adhesive in
water dispersion with
low water content for
bonding wooden flooring**



WHERE TO USE

- Installation of wood flooring.

Some application examples

Adesilex LC/R is used for installing:

- parquet or mosaic, industrial parquet and floorboards of all types of wood, multi-layer pre-finished parquet of small format

ON

- cement-based screeds;
- wooden substrates, chipboard panels, masonite panels;
- underfloor heating systems;
- **Mapecem, Mapecem Pronto, Topcem and Topcem Pronto** screeds.

TECHNICAL CHARACTERISTICS

Adesilex LC/R is a fast-setting synthetic resin-based adhesive in water emulsion with low water content. It is an easily trowelable thixotropic paste available in beige (C).

Adesilex LC/R forms a film even at near-freezing temperatures. However, installing at temperatures of at least +10°C is recommended.

Adesilex LC/R has good grab that makes floors set to light foot traffic after 24 hours.

After the evaporation of the water, Adesilex LC/R reaches a remarkable level of flexibility and adhesion, and is resistant to normal hygrometric movements of wood and the thermal expansion of substrates.

Adesilex LC/R is totally resistant to mold and bacteria because of the special additives it contains.

RECOMMENDATIONS

- Use one-component polyurethane and two-component epoxy-polyurethane adhesives such as **Ultrabond P990 1K, Ultrabond Eco P992 1K, Lignobond, Ultrabond P902 2K**, for installing large wood boards and very moisture-sensitive wood.
- Do not use in very cold areas; in cold weather, rooms must be heated.
- Do not use Adesilex LC/R on anhydrite or magnesium screeds.
- Do not use on screeds where there may be possible rising damp (always insert a vapour barrier between the ground and the screed).
- Do not use in open areas (without doors or closings).
- Do not use if the screed is not dry and has a moisture content higher than that recommended by the wood manufacturer (check moisture content throughout the entire thickness).

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Laying small pieces of pre-finished parquet

APPLICATION PROCEDURE

Preparing the substrate

Substrates must be thoroughly dry, absorbent, level, sound, free of dust, loose particles, paint, wax, oil, rust, and traces of gypsum.

The moisture content of the screed must be lower than the maximum prescribed by the parquet manufacturer.

Check moisture throughout the entire thickness of the substrate, using a carbide hygrometer.

Floating screeds over insulation or light weight layers (e.g. light weight concrete) and slabs on grade must be provided with a vapour barrier to prevent rising damp.

To repair cracks in the substrate, consolidate screeds, form fast-drying screeds and level uneven screeds, it is recommended to refer to the section in the MAPEI catalogue concerning to the preparation of substrates or contact the technical assistance.

Spreading the adhesive

Before using, stir the adhesive in its container. Any surface skin that may be present must be removed.

Apply **Adesilex LC/R** to the substrate with the notched trowel suitable to the format.

The open time of **Adesilex LC/R** is max. 30 minutes under normal temperature and humidity conditions, which must be taken into consideration when spreading the adhesive.

If a skin forms, the adhesive must be removed and replaced.

Ambient temperature must be above +10°C.

Installing the parquet

The parquet to be installed must be stored in a dry, sheltered area not subject to vapour condensation and must be insulated from the ground.

Before installing, check that the moisture level in the wood and the ambient humidity are as prescribed by the manufacturer.

Press the wood parquet firmly into the wet **Adesilex LC/R** to ensure good contact.

When installing the parquet leave an expansion joint of approximately 1 cm around the perimetral, columns, and any elements crossing the floor. Do not bond edges of wood strips together (follow the parquet manufacturer's recommendations for installing).

SET TO LIGHT FOOT TRAFFIC

Floors are set to light foot traffic after 24 hours.

Polishing the parquet

Ensure that the wood has reached the proper stability and that the adhesive is completely dry. Wait at least 10 days.

Cleaning

Tools can be cleaned and smudges removed with water while **Adesilex LC/R** is still fresh. After hardening, remove mechanically or with **Pulicol 2000**.

CONSUMPTION

Depending on the type of substrate
600-800 g/m² using a B3 trowel.
800-1000 g/m² using A B11 MAPEI trowel for wood.

PACKAGING

Adesilex LC/R is available in 15 kg in beige (**Adesilex LC/R**).

STORAGE

Stored in a cool place in its original unopened packaging **Adesilex LC/R** is stable for 12 months.

N.B.: Protect from frost during transit and storage. Avoid prolonged exposure to temperatures below 0°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Adesilex LC/R it is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear protective gloves and goggles and to take the usual precautions for the handling of chemicals. 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.

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)

PRODUCT IDENTITY

Consistency:	thick paste
Colour:	beige
Specific gravity (g/cm³):	1.3
pH:	8
Dry solid content (%):	71
Brookfield viscosity (mPa·s):	220,000 (rotor 7 - rpm 5)
EMICODE:	EC1 Plus - very low emission

APPLICATION DATA

Recommended application temperature:	from +10°C to +30°C
Open time (EN 14293) at +23°C - 50% R.H.:	30 minutes
Adjustability at +23°C - 50% R.H.:	approx. 30 minutes
Set to light foot traffic at +23°C - 50% R.H.:	after 24 hours
Polishing:	at least 10 days

FINAL PERFORMANCE DATA

Bonding wood-concrete (EN 14293) (N/mm²): – after 7 days at +23°C:	> 3 (concrete failure)
Shear strength (EN 14293) (N/mm²): – after 3 days at +23°C: – after 7 days at +23°C + 20 days at +40°C + 1 days at +23°C:	> 3 > 3.5
Underfloor heating systems:	suitable
Resistance to ageing:	excellent
Resistance to temperature:	good
Flexibility:	excellent



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