



# Adesilex LC/R

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



## WHERE TO USE

- Interior installation of wood flooring.

## Some application examples

Adesilex LC/R is used for installing:

- parquet strips or mosaic, and floorboards of all types of wood

## ON

- cement-based screeds;
- wooden substrates, chipboard panels, masonite panels;
- underfloor heating systems;
- **Mapcem, Mapcem 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 a beige (C) or brown (S) colour.

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 has good resistance to moisture.

Adesilex LC 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).

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- 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).

## 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 a Mapei notched trowel for wood. 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 acetone, alcohol, mineral spirit or **Pulicol**.

## CONSUMPTION

Depending on the type of substrate and using a MAPEI trowel for wood, consumption is 800-1000 g/m<sup>2</sup>.

## PACKAGING

**Adesilex LC/R** is available in 20 kg and 12 kg buckets in beige (**Adesilex LC/R-C**) and brown (**Adesilex LC/R-S**).

## STORAGE

Stored in a cool place in its original unopened packaging **Adesilex LC** is stable for 24 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** is not considered as dangerous according to the European regulation regarding the classification of preparations. It is however recommended to use gloves, eyes protection and to take the usual precaution taken when handling chemical products are recommended. For further information refer to the Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

## WARNING

*While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.*

**All relevant references  
for the product are available  
upon request and from  
[www.mapei.com](http://www.mapei.com)**



Installing MUHUUH wood strips

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

<b>Consistency:</b>	thick paste
<b>Colour:</b>	beige or brown
<b>Specific gravity (g/cm<sup>3</sup>):</b>	1.25
<b>pH:</b>	6.5
<b>Dry solid content (%):</b>	68
<b>Brookfield viscosity (mPa·s):</b>	230,000 (rotor 7 - rpm 5)
<b>Storage:</b>	24 months in original unopened packaging. Avoid prolonged exposure to frost
<b>Hazard classification according to EC 1999/45:</b>	none. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet
<b>Customs class:</b>	3506 91 00

### COMPOSITION AND PROPERTIES OF THE MIXTURE (at +23°C and 50% R.H.)

<b>Recommended application temperature:</b>	from +10°C to +30°C
<b>Open time:</b>	30 minutes
<b>Adjustability:</b>	approx. 30 minutes
<b>Set to light foot traffic:</b>	after 24 hours
<b>Polishing:</b>	at least 10 days

### FINAL PERFORMANCE DATA

<b>Bording wood-concrete (EN 14293) (N/mm<sup>2</sup>):</b> after 28 days at +23°C:	> 3.0 (concrete failure)
<b>Shear strength (EN 14293) (N/mm<sup>2</sup>):</b> – after 3 days: – after 7 days at +23°C + 20 days at +40°C + 1 days at +23°C:	4 5
<b>Underfloor heating systems:</b>	suitable
<b>Resistance to humidity:</b>	good
<b>Resistance to ageing:</b>	excellent
<b>Resistance to temperature:</b>	good
<b>Flexibility:</b>	excellent

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