

Adesilex LC/R-P

**Water-based adhesive
with high solids content
and fast setting
for wood flooring**



WHERE TO USE

Interior installation of:

- wood strips or mosaics;
- wood strips that are not very sensitive to moisture.

Some application examples

Adesilex LC/R-P is used for laying wooden mosaics and wooden strips of stable timber species onto:

- cementitious screeds and concrete slabs;
- **Mapecem, Mapecem Pronto, Topcem or Topcem Pronto** based screed;
- chipboard and plywood boards;
- existing wooden floor;

Adesilex LC/R-P is suitable for laying parquet over under floor heating systems.

TECHNICAL CHARACTERISTICS

Adesilex LC/R-P is a synthetic resin-based adhesive in water emulsion that sets through evaporation and/or through the absorption of the water into the substrate and the wooden flooring.

Adesilex LC/R-P forms a film at temperatures from +5°C to +30°C, however it is recommended to lay wood flooring at a temperature not lower than +10°C.

At this temperature the adhesive will take light foot traffic after 24 hours, and the floor can be sanded after 15 days.

Adesilex LC/R-P is a paste that is very easy to apply by trowel.

OBSERVATIONS

- Do not lay parquet in areas where doors and windows are not yet installed.
- Do not lay parquet if the screed, or the concrete slab, is not dry and has a moisture content higher than the one recommended by the floor manufacturers (check the moisture content through the entire thickness).
- Do not lay parquet over screed or concrete that may be subject to rising damp (the substrate must always have a damp-proof membrane).
- Do not lay parquet if its moisture content is not in equilibrium with the hygrometric conditions of the area on which the parquet will be installed.

RECOMMENDATIONS

- Lay the parquet at a temperature between +10°C and +35°C.
- Species of timber that are very sensitive to humidity (for example olive, Muhuhu, Cumarù, etc.), often require two component or one component

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

| | |
|---------------------------------------|--------------------------|
| Consistency: | thick paste |
| Colour: | beige brown |
| Density (g/cm³): | 1.30 |
| pH: | 7.5 |
| Dry solids content (%): | 68.5 |
| Brookfield viscosity (mPa·s): | 240 (7 rotor - 5 rpm) |
| Min. film forming temperature: | approx. +5°C |

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

| | |
|--|-----------------------|
| Min. recommended application temperature: | from +10°C to +35°C |
| Open time (min.): | approx. 45-50 |
| Adjustability (min.): | approx. 30 |
| Set to light foot traffic (hours): | after 24 |
| Polishing (days): | after a minimum of 10 |

FINAL PERFORMANCE DATA

| | |
|--|--------------------------|
| Bonding wood concrete (N/mm²) – after 28 days at +23°C: | > 3.0 (concrete failure) |
| Shear strength DIN 281 (N/mm²): – after 3 days: – after 28 days: | > 3 > 3.5 |
| Resistance to ageing: | excellent |
| Flexibility: | good |

polyurethane adhesives, like **Lignobond**, **Ultrabond P990 1K** or **Ultrabond P902 2K**.

APPLICATION PROCEDURE

Preparing the substrate

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

The moisture content must be as prescribed by the parquet manufacturer. Check the moisture level throughout the entire thickness of the substrate, using a carbide hygrometer, bearing in mind that the latter gives only approximate values. Floating screeds over insulation or light weight layers (eg. light weight concrete) must have a damp proof membrane 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 the preparation of substrates or contact Technical Services Department.

Spreading the adhesive

Before using, stir the adhesive in its bucket. Any surface skin that may have formed must be removed. Apply **Adesilex LC/R-P** to the substrate with a MAPEI notched trowel for wood. The open time of **Adesilex LC/R-P** at +23°C and 50% R.H. is approx. 45/50 minutes, but varies according to the absorbency of the substrate, ambient temperature and humidity. 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 adhesive to ensure good contact.

Leave an expansion joint of approximately 1 cm around the perimeter, columns, and other interruptions in the floor.

Do not bond edges of wood strips together (follow the parquet manufacturer's recommendations).

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-P** is still fresh. After hardening, remove mechanically or **Pulicol 2000**.

CONSUMPTION

Depending on the type of substrate, and using a MAPEI trowel for wood, consumption is 800-1000 g/m².

PACKAGING

Adesilex LC/R-P is available in 20 kg drums and beige colour.

STORAGE

Stored in a cool place in its original unopened packaging **Adesilex LC/R-P** 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-P is not considered as dangerous according to the current regulations 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 the latest version of our 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



**Adesilex
LC/R-P**



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