MAPEI

Adesilex LC/R-P

Water-based adhesive with high solid 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, and retains the serrations.

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 single component 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 or an electric hygrometer, baring 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.

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 minutes, but varies according to the absorbency of the substrate, ambient temperature and humidity. The amount of adhesive needed can vary according to each installation. 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 2 hours.

Polishing the parquet

Ensure that the wood has reached the proper stability and that the adhesive is completely dry. Wait at least 15 days.

Cleaning

Tools can be cleaned and smudges removed with water while **Adesilex LC/R-P** is still fresh. After hardening, remove mechanically or with acetone, alcohol, mineral spirits or **Pulicol**.

CONSUMPTION

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

PACKAGING

Adesilex LC/R-P is available in 20 kg and 12 kg buckets.

STORAGE

Stored in a cool place in its original unopened packaging **Adesilex LC/R-P** 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-P is not considered as hazardous according to ruling laws on the classification of these mixtures. It is however recommended to wear protective gloves and goggles and to take the usual necessary precautions for handling chemical products.
The Safety Data Sheet is available upon request.

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

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
Storage:	24 months in original unopened packaging. Avoid prolonged exposure to frost
Hazard classification according to EC 99/45:	none. Before using refer to the “Safety instructions for preparation and application” paragraph and the information on the packaging and Safety Data Sheet
Customs class:	3506 91 00
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 2
Polishing (days):	after a minimum of 15
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:	 4.5 5.4
Resistance to humidity:	good
Resistance to ageing:	excellent
Temperature when in use:	from –30°C to +50°C
Flexibility:	good

Adesilex LC/R-P

(GB) A.G. BETA

280-12-2006

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