



Adesilex LC



Adhesive in water emulsion for wood flooring



WHERE TO USE

Interior installation of wood flooring.

Some application examples

Adesilex LC is used for installing:

- parquet strips or mosaic, floorboards of all types of wood;
- wood strips that are not very sensitive to moisture

OVER

- cement-based screeds;
- wooden substrates, chipboard panels, masonite panels;
- underfloor heating systems.

TECHNICAL CHARACTERISTICS

Adesilex LC is a synthetic resin-based adhesive in water emulsion formulated in an easily trowellable thixotropic paste available in a beige (C) and a brown (S) colour.

Adesilex LC forms a film at temperatures from +5°C to +30°C (however, installing at temperatures from at least +10°C to +15°C is recommended).

Adesilex LC has good initial grab and final setting takes place in a short time (48 to 72 hours).

After the evaporation of the water it contains, **Adesilex LC** reaches a remarkable level of flexibility and adhesion, and is resistant to normal hygrometric movement of wood and the thermal expansion of substrates.

Adesilex LC has good resistance to moisture.

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

RECOMMENDATIONS

- Do not use **Adesilex LC** for installing large wood boards (use **Lignobond**, **Ultrabond P902 2K**, **Ultrabond P990 1K**).
- Do not use **Adesilex LC** for installing pre-finished parquet (use **Lignobond**, **Ultrabond P902 2K**, **Ultrabond P990 1K**).
- Do not use **Adesilex LC** on anhydrite or magnesium screeds.
- Do not use **Adesilex LC** on **Mapecem** screeds (use **Lignobond**, **Ultrabond P902 2K** or **Ultrabond P990 1K**).
- Do not install over 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 suitable doors or closings).

Adesilex LC



Checking the moisture content of the wood



Installing teak strips



Colours of Adesilex LC-C and LC-S

- Do not use in cold environments; areas must be heated in cold weather.
- Do not install if the wood does not have a moisture content in equilibrium with that of its surroundings.
- 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).
- Do not use where walls and ceilings are not thoroughly dry.

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 must be as prescribed by the parquet manufacturer.

Check moisture throughout the entire thickness of the substrate, using a carbide or electric hygrometer, keeping in mind that the latter gives only approximate values.

Floating screeds over insulation or light weight layers (eg. 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 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** to the substrate with a Mapei notched trowel for wood. The open time of **Adesilex LC** at +23°C and 50% R.H. is approx. 30 minutes, but varies according to the absorbency of the substrate and 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.

Do not install the parquet flush with walls, but leave an expansion joint of approximately 1 cm around the perimeter, columns, and

protruding wall sections. 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 20 days.

Cleaning

Tools can be cleaned and smudges removed with water while **Adesilex LC** 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/m².

PACKAGING

Adesilex LC is available in 20 kg and 10 kg buckets, in beige (**Adesilex LC-C**) and brown (**Adesilex LC-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.

FOR PROFESSIONAL.

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.



This symbol identifies all Mapei the floor adhesives in water dispersion and indicates that no fire prevention certificate for inflammable products is needed.

**All relevant references
of the product are available
upon request**

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	thick paste
Color:	beige and brown
Specific gravity (g/cm³):	1.2
pH:	6.8
Dry solids (%):	61
Brookfield viscosity (mPa·s):	100,000 (7 rotor, 20 rpm)
Min. film forming temperature:	approx. 0°C
Storage:	24 months in original unopened packaging. Avoid prolonged exposure to frost
Hazard classification according to EC 99/45:	none
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 +30°C
Open time:	approx. 30 minutes
Adjustability:	approx. 40 minutes
Set to light foot traffic:	after 24 hours
Polishing:	after at least 20 days
FINAL PERFORMANCE DATA	
Bonding wood-concrete (N/mm²) after 28 days at +23°C:	> 3.0 (concrete failure)
Resistance to humidity:	good
Resistance to ageing:	excellent
Temperature when in use:	from -30°C to +50°C
Flexibility:	excellent

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