

L34 Evolution ex L34 New

Organic, mineral adhesive for the high-performance laying of hardwood floors, ideal for use in GreenBuilding. Two-component, safeguards the health of operators.

L34 Evolution develops a perfect balance between adhesive force and elasticity, that guarantees superior levels of safety when laying hardwood floors of any size and wood type on any type of substrate.



GREENBUILDING RATING®

L34 Evolution

- Category: Organic Mineral products
- Laying hardwood floors and resilient materials

Natural mineral content 64%

Non-toxic and non-hazardous

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- No odour, safeguards the health of both operators and the environment
- The number one safest adhesive since 1980
- Ideal for laying all types of hardwood floors on all types of substrates
- Perfect balance between adhesive force and elasticity
- Anti-shock system technology to guarantee the strength and adhesion in actual working conditions
- Rapid performance, also at low temperatures
- Suitable for heated substrates

ECO NOTES

- Formulated with locally-sourced minerals meaning lower greenhouse gas emission during transportation
- Improved on-site safety guaranteed

AREAS OF USE

Use
Easy installation of laying for traditional and prefinished wood floors made of any format or type of wood, and onto any type of substrate.

Floors:

- wood mosaic, industrial hardwood floors and according to EN 13488 and EN 14761
- solid wood elements without strips, thin strip, strip flooring and according to EN 13227
- solid wood tongue-and-groove boards and according to EN 13226 and EN 13228
- pre-finished, pre-polished, tongue-and-groove plywood strips and according to EN 13489
- bamboo floors
- wood flooring according to EN 14342

Substrates:

- cement-based screeds
- anhydrite screeds
- screeds produced with Keracem® Eco or Keracem® Eco Prontoplus
- wood panels
- existing marble, ceramic, homogeneous tile or similar floors
- cast asphalt screeds

Interior floors in residential and commercial buildings. Suitable for heated substrates.

Do not use
For all external laying or for external use or on substrates subject to rising damp; on heated subfloors not properly prepared; on anhydrite screeds not properly prepared and on a general basis on non-absorbent subfloors not properly prepared.

* ÉMISSION DANS L'AIR INTÉRIEUR Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).

INSTRUCTIONS FOR USE

Preparation of substrates

Substrates must be compact, solid, level, not too rough and absorbent. They must also be dimensionally stable, non-deformable, dry, clean and free of any rising moisture, cracks, dust and detaching substances. Cement-based screed or substrates consisting of marble, granite, ceramic or similar must have residual moisture at a maximum of 2% or 1.7%, in case of under floor heating. Anhydrite screeds must have residual moisture of a maximum of 0.5% or 0.2% in case of under floor heating. Cement-based screeds with high residual moisture (max 5%) or with dusty surface, flaky or weak parts must be treated with EP21.

Substrates consisting of existing marble, granite, ceramic or similar floors must be thoroughly cleaned and treated with Keragrip Eco Pulep; in case of high residual moisture (MC max 5% CM – RH max 90%) they must be treated with 3CW. Anhydrite screeds must be sanded clean using mechanical dust extraction equipment and treated with EP21. Absorbent substrates with under floor heating must be treated with EP21. On a general basis anhydrite and heated subfloors can't be waterproofed and/or corrected with self levelling cement or gypsum-based products.

Uneven or excessively rough substrates must be adjusted and/or levelled with suitable products such as Keralevel® Eco Ultra, Keratech® Eco R30, Keratech® Eco Flex, Keratech® Eco HP4 or with synthetic mortars produced with EP21 mixed with Quarzo 5.12. Read carefully the relevant technical data sheets before using the above listed products.

Preparation

L34 Evolution is prepared mixing from the bottom upwards with a low-rev (≈ 400 /min) helicoidal agitator, Part A with Part B respecting the preset ratio of 9 : 1 of the packaging. Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained.

Application

Apply L34 Evolution evenly over the substrate using a suitable toothed spreader (no. 2 or no. 4), lay the hardwood floor strips on the fresh adhesive, pressing down hard enough to ensure full contact with the adhesive, making sure nothing rises up between the strips. Leave $\approx 7 - 10$ mm for expansion between the wood floor and the walls (or other vertical elements).

Cleaning

Remove residual traces of L34 Evolution from the surface while still fresh using alcohol. The product can be removed from tools with Diluente 01 or alcohol. Once cured, the adhesive can only be removed by mechanical means.

SPECIAL NOTES

Allow the floor to reach room temperature in the place where it is to be laid.

The boards to be laid must have a moisture content of 5 – 9% for engineered floors, and of 7 – 11% for solid wood floors.

Before laying, measure the moisture content of the substrate using a calcium carbide hygrometer.

Before laying, measure the ambient temperature and that of the substrate, which must be higher than the minimum use temperature indicated in the technical data.

In addition to the above recommendations, follow the hardwood floors manufacturer's specific instructions.

ABSTRACT

Certified, high-performance laying of solid wood and plywood floors is to be carried out using a two-component, organic mineral adhesive with Anti Shock System Technology, GreenBuilding Rating® Eco 2, such as L34 Evolution by Kerakoll Spa. The substrate must be permanently dry, compact, free from any loose debris, clean and cured, and the shrinkage stage already completed. For laying, a ____ toothed spreader must be used for an average coverage of \approx ____ kg/m².

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	paste colour oak/walnut	
Pack	monopack 9+1 kg	
Shelf life	≈ 12 months in the original packaging	
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat	
Temperature range for application	from +10 °C to +35 °C	
Viscosity of the mixture	$\approx 39,000$ mPa · s, rotor 7 RPM 50	Brookfield method
Pot life	≈ 90 min.	
Open time	≈ 90 min.	
Foot traffic	≈ 8 hrs	
Interval before normal use of engineered floors	≈ 24 hrs	
Waiting time before sanding	≈ 2 days after complete stabilisation of the hardwood floors	
Coverage	$\approx 800-1500$ g/m ² (spreader no. 2-4)	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbency level of the substrate.

WARNING

- Product for professional use

- abide by any standards and national regulations
- use the recommended notched trowel
- the temperature, ambient humidity, ventilation and absorption of the substrate and covering materials may vary the adhesive workability and setting times
- keep the room(s) well ventilated and use Proman, a protective hand cream
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - globalservice@kerakoll.com

The Rating classifications refer to the GreenBuilding Rating® Manual 2013. This information was last updated in November 2019 (ref. GBR Data Report - 12.19); please note that additions and/or amendments may be made over time by KERAKOLL SpA, for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.



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