

L34 Flex

Certified, eco-friendly, elastic, organic, mineral adhesive for the high-performance laying of hardwood floors.

L34 Flex develops a perfect balance between adhesive force and elasticity that guarantees the safe laying of prefinished and traditional hardwood floors on any type of substrate.



Rating 4

1. Single-component, ready to use
2. Hypoallergenic
3. No environmental hazard rating
4. Easy to spread
5. High coverage
6. Quick and safe to clean, ideal to lay pre-finished hardwood floors
7. Anti-shock system technology to guarantee the strength and adhesion in actual working conditions
8. Ideal for underfloor heating systems
9. Available in cartridges and blister packs to secure floating hardwood floors and bond wooden elements

- × Regional Mineral $\geq 30\%$
- ✓ VOC Low Emission
- ✓ Solvent ≤ 5 g/kg
- ✓ Low Ecological Impact
- ✓ Health Care

kerakoll

Areas of application

→ Intended 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
- wood flooring according to EN 14342

Elastic seam bonding application of:

- prefinished floating hardwood floors
- planks
- laminate floors

Elastic application of:

- wood strips used to cover stair treads and rises
- wood, steel and aluminium profiles and skirting boards

Substrates:

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

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

Do not use 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.

Instructions for use

- Substrates must be compact, solid, level and not too rough. 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, Planogel Rheo, Flowtech Plus 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

- 6 and 16 kg packaging: L34 Flex is ready for use. Open the packaging, remove the bag of desiccant and the protective cover from the surface of the adhesive. At the end of use, in case the product is not finished, it is necessary to apply carefully the clean protection film again, in order to avoid contact with air and the subsequent hardening. Insert the bag of desiccant once again before sealing the packaging with the lid.
- 290 ml packaging: L34 Flex is ready for use. Perforate the screw cap of the cartridge, cut the end of the plastic nozzle so as to create a hole of the required diameter, screw it on the cartridge, insert in the special gun and extrude.
- 600 ml packaging: L34 Flex is ready for use. Cut an end of the blister, prepare the special gun with the desired nozzle, insert the blister in the gun and extrude.

Instructions for use

→ Application

- Laying with total bonding: apply L34 Flex evenly over the substrate using a notched trowel no. 4, lay the boards on the wet adhesive, pressing down hard enough to ensure full contact with the adhesive, making sure none rises up between the strips. Leave $\approx 7 - 10$ mm for expansion between the wood floor and the walls (or other vertical elements).
- Laying by seam bonding: apply L34 Flex in seams using an extrusion gun. For the installation of wood or laminate floors, a seam with a diameter $\approx 6 - 8$ mm must be applied perpendicularly in respect of the length of the board to be set. The diameter of the seams depends on the depth of the possible irregularities of the substrate. In every case the adhesive must not be applied with excessive thickness in order to avoid staining the varnished surface of the board. The distance between the seams must be ≈ 10 cm.

- Bonding with sound dampening matting: stretch the matting out so that the slots are perpendicular with respect to the laying direction of the boards. Apply L34 Flex using an extrusion gun with a special V-shaped triangular nozzle (size $\approx 8 \times 10$ mm / 0.32x0.4 inches) to make sure the right amount of glue goes into each groove. Apply the product keeping the gun in a vertical position and fill all the slots. Also apply the adhesive along the perimeter of the room and in the middle of two adjacent rolls. Do not apply the adhesive on the matting. Always follow the instructions of the manufacturer of the sound dampening matting for soundproofing systems and wood

→ Cleaning

Remove residual traces of L34 Flex from the surface while still fresh using alcohol. The product can be removed from tools with Diluente 01 or alcohol. Once hardened, the adhesive can easily be removed from varnished surfaces by water and SuperSoap.

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.

Certificates and marks



* 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).

Abstract

Certified, high-performance laying of solid wood and plywood floors must be carried out using single-component, elastic, eco-friendly, organic, mineral adhesive with Anti Shock System Technology, GreenBuilding Rating 4, such as L34 Flex 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	buckets 16 kg / 6 kg – cartridges 290 ml – blister 600 ml	
Shelf life	≈ 12 months from production in the original sealed packaging	
Warning	Protect from frost, avoid direct exposure to sunlight and sources of heat	
Viscosity of the mixture:		
- bucket	≈ 45,000 mPa · s, rotor 7 RPM 50	Brookfield method
- blister/cartridge	≈ 100,000 mPa · s, rotor 7 RPM 20	Brookfield method
Temperature range for application	from +10 °C to +35 °C	
Open time	≈ 60 min.	
Foot traffic	≈ 12 hrs	
Interval before normal use of engineered floors	≈ 24 hrs	
Waiting time before sanding	≈ 3 days (after full stabilisation of the hardwood floor)	
Coverage:		
- continuous layer bonding	≈ 600 – 1200 g/m ²	
- laying by seam bonding	≈ 2 m with 1 290 ml cartridge	
- laying by seam bonding	≈ 4 m with 1 600 ml blister	

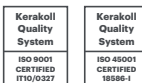
Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbency level of the substrate.

Performance**VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions**

Conformity	EC 1 Plus GEV-Emicode	GEV Certified 2389/11.01.02
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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
- 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 May 2023 (ref. GBR Data Report - 05.23); please note that additions and/or amendments to this information 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.