



KERAKOLL® ECO-FRIENDLY LAYING SYSTEM

Hardwood floor laying on heated substrates

The safest system with high thermal conductivity

KERAKOLL
The GreenBuilding Company

The Kerakoll® solution

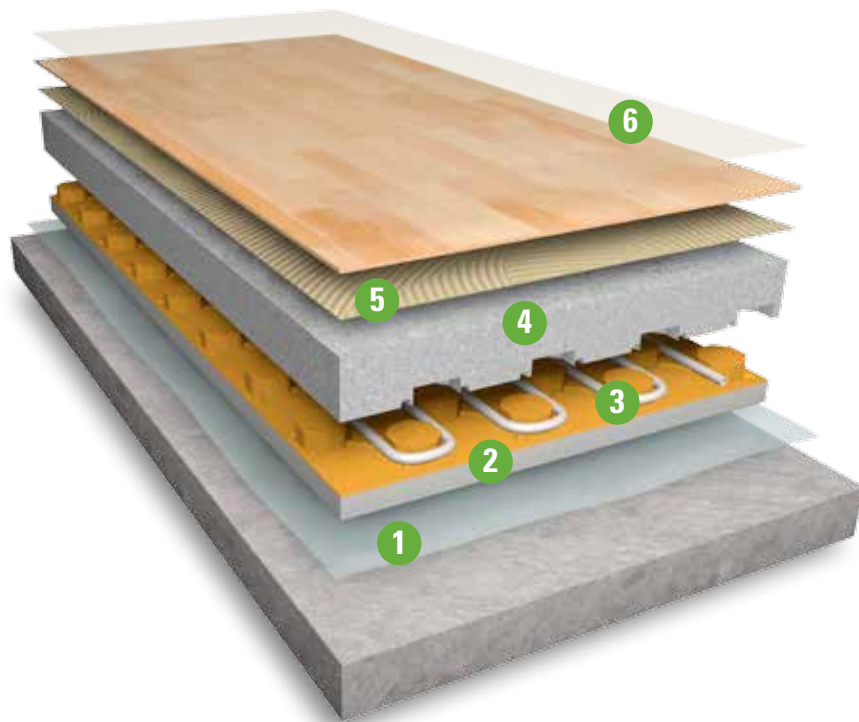
The underfloor heating system must comprise a mechanical and hydraulic system that satisfies the strictest production requirements, in order to guarantee proper operation. However there are phases in construction of the system that until now were carried out using conventional materials that are not certified.

The Kerakoll® system, using products certified under the most recent European and world regulations for heated screeds, for gluing and finishing hardwood floors, satisfies all the requirements of European standard EN 1264:2009 for heated floors.

Kerakoll® products comply with European standards EN 13813:2002 for screeds and EN 14293 for adhesive materials and carry the CE mark in compliance with European Directive 89/106/EEC.

CHARACTERISTICS OF THE LAYING SYSTEM FOR HEATED SUBSTRATES

- The screed must have constant, adequate mechanical characteristics
- The screed must diffuse heat quickly without shrinking and curling
- The adhesive used for laying must be able to stand up to thermal cycles and absorb movements in the wood
- The varnish used must be high strength and high elasticity for long-lasting protection



THE ADVANTAGES OF THE KERAKOLL® LAYING SYSTEM FOR HARDWOOD FLOORS

Eco-friendly

Materials are solvent-free, water-based, non-toxic and with very low VOC emissions.

Safe and Guaranteed

Conventional screed is made with uncertified sand and does not guarantee mechanical characteristics. Keracem® Eco Pronto is an industrial product that guarantees constant, certified technical characteristics.

The Slc® Eco L34 range of adhesives, which are Anti-Shock System tested, guarantees high-performance laying of hardwood floors and a perfect balance between adhesive force and elasticity capable of absorbing all the stress caused by underfloor heating systems.

Based on HP-High Protection technology, Slc® Eco Aqua-Pur HPX creates a double protective layer that guarantees perfect adhesion to the wood and elasticity to follow the micro movements of the wood fibres. In this way it guarantees high-performance, long-lasting and aesthetically perfect protection.

High Energy Saving

Keracem® Eco Pronto has a low porosity and therefore greater thermal efficiency. The conductivity coefficient λ is higher than 1.47 W/mK and allows the rooms to be heated in less time, thus giving a constant energy saving.

Practical and rapid

Conventional screed is slow drying, which can result in high hygrometric shrinkage. It requires a wait of at least 21 days before the system can be tested at maximum project temperature, as described in European standard EN 1264-4 point 4.4. Using Keracem® Eco Pronto screed it is possible to test the system just five days after laying, saving 16 days. Keracem® Eco Pronto also allows safe laying of hardwood floors with adhesives in the Slc® Eco L34 range without the application of primer, thus saving an additional application phase.



1 PVC sheet – anti-fracture vapour barrier

2 Pre-formed, high modulus insulating panel

3 Water heating system

4 Keracem® Eco Pronto

Certified, ready-to-use, eco-friendly, normal-setting and rapid-drying mineral screed to be covered with adhesives, ideal for use in GreenBuilding.

Keracem® Eco Pronto develops excellent thermal conductivity that is essential in underfloor heating systems to allow the system to quickly reach optimal efficiency and an even distribution of heat.

- Internal, external
- Ready-to-use, ensures constant levels of performance
- Ideal in renovation work
- High dimensional stability and long-lasting performance
- High mechanical resistance for screeds subject to heavy traffic
- Suitable for laying ceramic tiles, porcelain tiles, natural stone, hardwood floors and resilient materials using adhesives



5 Slc® Eco L34 Flex

Certified, eco-friendly, single-component, organic, elastic and mineral adhesive for the high-performance laying of hardwood floors, ideal for use in GreenBuilding.

Slc® Eco L34 Flex develops a perfect balance between adhesive force and elasticity that guarantees the safe laying of prefinished and traditional hardwood floors on heated substrates.

- Hypoallergenic and with no environmental hazard rating
- Easy to spread and high yield
- Quick and safe to clean, ideal to lay pre-finished hardwood floors
- Anti-shock system technology to guarantee the strength and adhesion in actual working conditions



6 Slc® Eco Aqua-Pur HPX

Two-component, certified, eco-friendly, water-based varnish for treatment of hardwood floors, ideal for use in GreenBuilding.

Slc® Eco Aqua-Pur HPX guarantees high levels of protection from wear and abrasion for wood floors, that are even subjected to extreme foot traffic.

- HP Technology to guarantee high levels of protection and resistance to wear and abrasion
- Enhances the natural colour and grain of the wood
- Suitable for any type of wood floor subject to extreme foot traffic
- Compliant with Directive 2004/42/EC



Safe and Guaranteed in every situation

The technical and performance limits of conventional, uncertified or poor-consistency screeds can now be overcome by applying Slc® Eco EP21, which increases the mechanical resistance of any type of substrate.

Slc® Eco EP21

Two-component, certified, eco-friendly, organic resin for the consolidation of absorbent substrates and the waterproofing of absorbent mineral or cement-based substrates with high residual moisture, ideal for use in GreenBuilding.

- 100% dry residue with extremely high consolidating power
- Guarantees increased mechanical strength in inconsistent substrates
- Specific for applications in poorly ventilated areas and in renovation work
- Ideal for consolidation of fragmented heated substrates
- Guarantees eco-friendly, safe laying even on conventional screeds



* 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).

Kerakoll® eco-friendly laying system



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