

Keralevel LR

Certified, fast-acting, mineral levelling product for the high-performance, high-thickness correction of irregular substrates.

Keralevel LR develops a perfect thixotropic balance which is ideal to correct walls that are out of plumb or irregular, and uneven floors without holding up site schedules and subsequent laying of floor/wall coverings.



1. For internal and external use
2. Thicknesses from 1 to 25 mm
3. Prolonged workability, also suitable for large surface areas
4. High dimensional stability and long-lasting performance
5. High mechanical resistance
6. Suitable for laying ceramic tiles, porcelain tiles, natural stone, hardwood floors and resilient materials using adhesives

Areas of application

→ Intended use:

Levelling correction of irregular and uneven substrates, with rapid setting and drying and compensated shrinkage. Thicknesses from 1 to 25 mm.

Compatible adhesives:

- gel adhesives, mineral adhesives, single- and two-component organic mineral adhesives
- reactive-epoxy and polyurethane, single and two-component cement-based adhesives, dispersed in water or solvent solutions

Covering materials:

- porcelain tiles, ceramic tiles, klinker and cotto of all types and formats
- natural stone, recomposed materials, marble
- hardwood flooring, rubber, PVC, linoleum, textiles
- varnishes and paints

Substrates:

- cement plasters and cement-lime mortar
- Mineral screeds made with Keracem Pronto, Keracem Prontoplus, Rekord Pronto and Keracem as binder or pre-mixed product
- cement-based screeds
- prefabricated concrete or fresh concrete castings
- walls in concrete blocks or cellular concrete
- residual traces of cement-based adhesives

Flooring and walls, for internal and external use, in domestic, commercial and industrial applications, underfloor heating systems.

Do not use on gypsum-based plasters and anhydrite screeds without applying Active Prime Fix water-based, surface insulation, following the instructions provided; on highly flexible substrates and substrates subject to high thermal expansion, and on plasterboard; on wet substrates or substrates subject to continuous moisture rising.

Instructions for use

→ Preparation of substrates

In general, substrates must be free of dust, oil and grease, free from any moisture rising, with no loose, flaky or imperfectly anchored parts such as residues of cement, lime, paint coatings and adhesives, which must be completely removed. The substrate must be stable, non-deformable, without cracks and have already completed the curing period of hygrometric shrinkage.

- Low-absorption substrates: smooth substrates with very low absorbency level or which are completely non-absorbent, such as ceramic tiles, marble floor tiles, epoxy and wall paints, residual traces of oxidised adhesives and smoothed concrete coatings which are compact and properly anchored, must be prepared by means of mechanical abrasion or by application of Active Prime Grip or Active Prime Fix water-based adhesion promoters, following the instructions for use and after having carried out thorough cleaning of the surface. Any substances used for surface treatment, such as wax or parting compounds, must be removed mechanically or using specific chemical products.

- High-absorbency substrates: on screeds and plasters which are compact but very absorbent, first Active Prime Fix water-based surface isolation, in order to reduce and regulate the level of absorption. In the case of absorbent substrates with weak consistency, apply Keradur water-based deep consolidant. Respect the indicated waiting time before carrying out correction of the surface with a levelling product.

→ Preparation

Prepare Keralevel LR in a clean container, first of all pouring in a quantity of water equal to approximately $\frac{3}{4}$ of the amount required. Gradually add Keralevel LR to the container, mixing the paste with a low-rev ($\approx 400/\text{min.}$) helicoidal agitator. Add water until a fluid, smooth, lump-free mixture is obtained. The mixture must be of smooth consistency and without any lumps. For best results, and to mix larger quantities of levelling product, a stirring device with vertical blades and slow rotation is recommended. Specific polymers with high-dispersion properties ensure that Keralevel LR is immediately ready for use. The

Instructions for use

amount of water indicated on the packaging is indicative. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made. Adding extra water does not improve the workability of the product, and may cause shrinkage in the plastic phase of drying and result in less effective final performance with a reduction in surface hardness, compressive strength and adhesion to the substrate.

→ Application

Apply a first layer of the product to the suitably prepared and damped substrate using a smooth trowel. Press down hard to ensure adhesion and to force the air out of the pores, after that, the thickness can be adjusted as required. In the

event of high thicknesses apply in more layers until the required thickness is obtained. For limited restorations it is possible to work in a single layer, thanks to the high thixotropic effect of the mixture. The appearance of the surface finish may vary depending on whether a smooth steel trowel or a sponge has been used for application. For subsequent laying of ceramic tiles it is always advisable to obtain a roughened, porous surface.

→ Cleaning

Residual traces of Keralevel LR can be removed from tools using water before the product hardens.

Special notes

→ Joints: all the joints located in the substrate must be respected.

Deformable substrates: if substrates are liable to movement, apply the Kerakoll adhesion promoter suitable for the type of substrate, following the instructions for use. Attach an anti-alkali 4x5 mm size mesh and mix Keralevel LR with ≈ 3 l of Keraplast 337 latex and ≈ 3 l of water.

→ Gypsum-base plasters: must be dry and prepared with the Active Prime Fix water-based surface insulation, following the instructions for use.

→ Anhydrite screeds: must be dry and sanded as specified in the manufacturer's instructions, then prepared with water-based surface isolation Active Prime Fix, following the instructions for use.

→ Large continuous surfaces: continuous, extensive surfaces need to be separated with elastic joints so as to create areas of ≈ 50 m².

→ Laying hardwood floors: for subsequent laying of hardwood floors, create a smooth finish with thickness ≥ 3 mm.

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 correction of substrates from 1 to 25 mm thickness must be carried out using a rapid, high thickness, mineral levelling product, compliant with standard EN 13813 class CT-C20-F6, such as Keralevel LR by Kerakoll Spa, suitable for subsequent laying of ceramic tiles after ≈ 2 hrs and for laying of natural stone, hardwood floors and resilient materials ≈ 12 hrs after application, at $+20$ °C, 65% R.H. Apply the product using a smooth spreader on the previously prepared, clean and dimensionally stable substrate and finish with a rigid float. Average coverage: ≈ 1.3 kg/m² per mm of thickness created.

Technical Data compliant with Kerakoll Quality Standard		
Apparent volumetric mass	≈ 1.45 kg/dm³	UEAtc/CSTB 2435
Mineralogical nature of inert material	silicate – crystalline carbonate	
Grading	≈ 0 – 600 µm	UNI 10111
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg bags	
Mixing water	≈ 6 l / 1 25 kg bag	
Specific weight of the mixture	≈ 1.62 kg/dm³	UNI 7121
Pot life	≥ 20 min.	
Temperature range for application	from +5 °C to +30 °C	
Maximum thickness	from 1 mm to 25 mm	
Foot traffic	≈ 2 hrs	
Waiting time before laying:		
- ceramic tiles, terracotta	≈ 2 hrs	
- hardwood floors, resilient materials and natural stone	≈ 12 hrs	
Coverage	≈ 1.3 kg/m² per mm of thickness	

Values taken at +20 °C, 65% 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 2951/11.01.02
HIGH-TECH		
Adhesion to concrete after 28 days	≥ 1 N/mm ²	EN 13892-8
Resistance to:		
- compressive strength after 28 days	≥ 20 N/mm ²	EN 13892-2
- flexural after 28 days	≥ 6 N/mm ²	EN 13892-2
- abrasion after 28 days	≤ 250 mm ³	EN 12808-2
Surface hardness after 28 days	≥ 30 N/mm ²	EN 13892-6
Conformity	CT – C20 – F6	EN 13813

Values taken at +20 °C, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

- Abide by any standards and national regulations
- do not use Keralevel LR for levelling purposes or for the correction of substrate irregularities greater than 25 mm
- do not add other binders or additives to the mixture
- low temperatures and high relative humidity lengthen drying times
- an excessive quantity of water will reduce strength and the drying time
- before laying hardwood floors and resilient materials, check residual moisture with a calcium carbide hygrometer
- protect from direct sunlight and currents of air for the first 12 hrs
- respect the elastic joints present in the substrate
- 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



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