

Keralevel Ultra

Certified, extra rapid, mineral self-levelling product for the high-performance and high-thickness correction of irregular substrates.

Keralevel Ultra is a rapid-hardening levelling product with a highly smooth finish, ideal for the subsequent laying of LVT, PVC, rubber and linoleum.



1. Thickness up to 20 mm
2. Approved for marine use
3. Suitable for laying ceramic and porcelain tiles, natural stone, hardwood floors and resilient materials using adhesives

Areas of application

→ Use

Levelling correction of irregular and uneven substrates, with rapid setting and drying and compensated shrinkage. Thickness up to 20 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:

- hardwood floors, PVC, linoleum, rubber in domestic, industrial and sports applications, textiles and cork
- porcelain tiles, ceramic tiles, klinker and cotto of all types and formats
- natural stone, recomposed materials, marble
- varnishes and paints

Substrates:

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

Flooring and walls, for internal and external use, in domestic, commercial and industrial applications, underfloor heating systems. Suitable for floors subject to concentrated loads, castors and wheels (EN 12529).

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 Fix or Active Prime Grip 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, following the instructions provided, in order to reduce and regulate the level of absorption. In the case of absorbent substrates with weak consistency, apply Keradur. Respect the indicated waiting time before carrying out correction of the surface with a levelling product.

→ Preparation

Prepare Keralevel Ultra 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 Ultra 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 Ultra is immediately ready for use. The amount of water indicated on the packaging is indicative. It

Instructions for use

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 Ultra can be removed from tools with water before the product hardens.

Special notes

→ Fine smoothing layers: for very low thickness applications which fill the porosity of a substrate, mix one 25 kg bag of Keralevel Ultra with ≈ 1.5 l of Keraplast 337 and ≈ 3.5 l of water.

→ 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 Ultra with ≈ 2.5 l of Keraplast 337 latex and ≈ 2.5 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.

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

→ Floors with points of concentrated load: in the case of flooring which has to bear concentrated loads and withstand the strain of furniture fitted with castors, apply a coat of Keralevel Ultra ≥ 1 mm (EN 12529).

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 substrate from 1 to 20 mm thickness must be carried out using an extra-rapid setting, high thickness, mineral levelling product, such as Keralevel Ultra by Kerakoll Spa, compliant with EN 13813 class CT-C30-F7, suitable for subsequent laying of ceramic tiles, natural stone, hardwood floors and resilient materials ≈ 6 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: ≈ 1.9 kg/m² per mm of thickness created.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	pre-mixed	
Apparent volumetric mass	$\approx 1.2 \text{ kg/dm}^3$	UEAtc/CSTB 2435
Mineralogical nature of inert material	silicate - crystalline	
Grading	$\approx 0 - 300 \text{ }\mu\text{m}$	UNI 10111
Shelf life	≈ 6 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg bags	
Mixing water	$\approx 5 \text{ l} / 1 \times 25 \text{ kg bag}$	
Specific weight of the mixture	$\approx 2.32 \text{ kg/dm}^3$	UNI 7121
Pot life	$\geq 20 \text{ min.}$	
Temperature range for application	from $+5 \text{ }^\circ\text{C}$ to $+30 \text{ }^\circ\text{C}$	
Obtainable thicknesses	up to 20 mm	
Foot traffic	$\approx 3 \text{ hrs}$	
Waiting time before laying	$\approx 2 \text{ hrs}$ with a 5 mm thickness - $\approx 6 \text{ hrs}$ with a 20 mm thickness	
Coverage	$\approx 1.9 \text{ kg/m}^2$ per mm of thickness	

Values taken at $+20 \text{ }^\circ\text{C}$, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e.temperature, ventilation and absorbcency level of the substrate.

Performance

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

Conformity	EC 1 plus GEV-Emicode	GEV certified 964/11.01.02
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HIGH-TECH

Adhesion to concrete after 28 days	$\geq 20 \text{ N/mm}^2$	EN 13892-8
Resistance to:		
- compressive strength after 3 hrs	$\geq 10 \text{ N/mm}^2$	EN 13892-2
- compressive strength after 28 days	$\geq 30 \text{ N/mm}^2$	EN 13892-2
- flexural after 28 days	$\geq 8 \text{ N/mm}^2$	EN 13892-2
- strain parallel to the laying surface	$\geq 3.5 \text{ N/mm}^2$	UNI 10827
- abrasion after 28 days	$\leq 200 \text{ mm}^3$	EN 12808-2
Surface hardness after 28 days	$\geq 65 \text{ N/mm}^2$	EN 13892-6
Conformity	CT – C30 – F7	EN 13813

Values taken at $+20 \text{ }^\circ\text{C}$, 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 Ultra for levelling purposes or for the correction of substrate irregularities greater than 20 mm

→ do not add other binders, additives or pigments 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 air currents during the drying phase

→ 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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