Code: P1202 2026/09 AU/EN

Keratech R10 Zero

Certified, extra fast-acting, mineral self-levelling product for the high-performance, smooth finishing of irregular substrates.

Keratech R10 Zero rapidly develops a smooth finish and perfectly even surface with high levels of mechanical resistance, guaranteeing the subsequent laying of all types of coverings.



1. For internal use
2. Thickness from 1 to 10 mm
3. Long self-levelling time and extra-rapid hardening
4. HDE technology with extended flow
5. Suitable for laying ceramic tiles, porcelain tiles, natural stone, hardwood floors and resilient materials using adhesives
6. High dimensional stability and long-lasting performance

kerakoll

Areas of application

→ Use
Self-levelling adjustment of irregular and uneven substrates, with extra-rapid setting and drying, compensated shrinkage and very low TVOC – Total Volatile Organic Compound. Made with hypoallergenic, low chromate content cements. Thickness from 1 to 10 mm.
Compatible adhesives:
- gel adhesives, mineral adhesives with SAS technology, 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 floors, textiles, rubber, PVC, linoleum
- protective resins for concrete
- raised floors

Substrates:
- mineral screeds made with Keracem Pronto, Keracem Prontoplus and Keracem as a binder or pre-mixed
- cement-based screeds
- prefabricated concrete or fresh concrete castings
- residual traces of cement-based adhesives

Flooring for internal use in residential, commercial and industrial applications and on heat-radiant slabs.

Do not use
In external applications, on high flexible substrates subject to thermal expansion, on wet surfaces or substrates subject to moisture rising or which are in continuous contact with water.

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 paints, residual traces of oxidised adhesives and smoothed concrete coatings which are compact and properly anchored, must be prepared by application of the rapid universal adhesion promoter Active Prime Fix or Active Prime Grip, following the instructions for use. If necessary, prior mechanical abrasion can also be used. Any substances used for surface treatment, such as wax or parting compounds, must be removed mechanically or using specific chemical products.

High-absorption substrates: on substrates which are compact but very absorbent, apply Active Prime Fix or Active Prime Grip 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 self-levelling product.

→ Preparation
Prepare Keratech R10 Zero in a clean container, first of all pouring in a quantity of water equal to approximately ¾ of the amount required. Gradually add Keratech R10 Zero to the water in the container, mixing the paste with a low-rev (≈ 400/min.) helicoidal or trapezoidal agitator. Then add more water until a fluid, smooth, lump-free mortar is achieved. For best results, and to mix larger quantities of self-levelling product, a stirring device with vertical blades and slow rotation is recommended. Specific polymers with high-dispersion properties ensure that Keratech R10 Zero is immediately ready for use. The amount of water indicated on the packaging is indicative. Keratech R10 Zero features a high degree of self-levelling capacity. 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.

Instructions for use

→ Application
Keratech R10 Zero is generally applied on the substrate with a smooth spreader or blade. The use of pumps for plasters allows for the levelling of extensive areas of surface in a very short time with absolute homogeneity. It is advisable to press down hard with the trowel during application so as to regulate the absorption of water and obtain maximum adhesion to the substrate. After that, the thickness can be adjusted as required. Use a roller to remove air bubbles contained in the self-levelling product, due to high absorbency of the substrate and prolonged or high-rev mixing. To achieve more precise thickness adjustment a steel comb may also be useful. If an additional correction layer is required, it must be applied as soon as the previous layer is ready for foot traffic (≈ 2 hrs at +23 °C and 50% R.H.) but after the application of the rapid universal adhesion promoter Active Prime Fix or Active Prime Grip, following the instructions for use. After this interval, it is necessary to wait ≈ 5 days, then apply Active Prime Fix or Active Prime Grip, after which the subsequent applications may be carried out. In the case of low temperatures and high humidity it is advisable to keep the environment ventilated during application and during the hours immediately following application, in order to avoid the formation of condensation on the surface of the self-levelling product during the setting phase. Protect from air currents at actual floor level.

→ Cleaning
Residual traces of Keratech R10 Zero can be removed from tools with water before the product hardens.

Special notes

→ Joints: it is advisable to desolidarise the self-levelling layer around the perimeter, laying a suitable compressible band along the whole perimeter of the room, on the walls and on any other vertical elements protruding from the supporting layer. Large and continuous surface areas need to be fractionized as soon as they can withstand foot traffic so to create areas < 50 m² with 8 m maximum individual size. All the joints located in the substrate must be respected.
→ Deformable substrates: for wood substrates or any substrate subject to flexure, apply universal adhesion promoter Active Prime Fix or Active Prime Grip to a clean surface, following the instructions for use. Embed a 4x5 mm anti-alkali mesh and cover up to a thickness of ≤ 5 mm.
→ High thicknesses: in the case of correction with thicknesses greater than 10 mm (up to 25 – 30 mm), to be performed in one application, add ≈ 30% in weight of clean inert material with assorted granulometry from 0 to 4 mm during mixing of the paste. Before laying the product, apply universak adhesion promoter Active Prime Fix or Active Prime Grip to improve adhesion to the substrate. Create elastic joints every ≈ 50 m².
→ Special substrates: anhydrite screeds must be dry and sanded as specified in the manufacturer's instructions, then prepared with water-based surface isolation Active Prime Fix or Active Prime Grip, following the instructions for use. For subsequent laying of hardwood floors, create a smooth finish with thickness ≥ 3 mm.

Certificates and marks

CE EN 13813 · CT C30-F6 EN 13813 · GEV-EMICODE EC 1 PLUS very low emission · ÉMISSIONS DANS L'AIR INTÉRIEUR A+ (A+ A B C)

** 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 with a maximum thickness of 10 mm, carried out using an extra-rapid, HDE - High Dispersing Effect technology and smooth finish, mineral self-levelling product, compliant with standard EN 13813, class CT - C30 - F6, such as Keratech R10 Zero by Kerakoll Spa, suitable for overlaying all types of flooring after approx. 12 hrs when applied at +23 °C and 50% R.H.
Prepare, clean and make the substrate dimensionally stable first, then apply the product with a smooth spreader. Average coverage: ≈ 1.6 kg/m² per mm of thickness created.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	pre-mixed, red-brown colour	
Apparent volumetric mass	≈ 1,15 kg/dm³	UEAtc/CSTB 2435
Mineralogical nature of inert material	silicate – crystalline carbonate	
Grading	≈ 0 – 650 µm	UNI 10111
Shelf life	≈ 6 months from production in the original sealed packaging, protect from humidity	
Pack	20 kg bags	
Mixing water	≈ 4.9 l / 1 bag 20 kg	EN 12706
Specific weight of the mixture	≈ 2,02 kg/dm³	UNI 7121
Pot life	≥ 25 min.	
Self levelling time	≈ 20 min.	CSTB 2893-370
Temperature range for application	from +5 °C to +30 °C	
Maximum thickness	from 1 to 10 mm	
Foot traffic	≈ 2 hrs	
Waiting time before laying	≈ 12 hrs	
Coverage	≈ 1.6 kg/m² per mm of thickness	

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 and of the materials laid.

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 Plus GEV-Emicode	GEV certified 12710/11.01.02
HIGH-TECH		
Adhesion to concrete after 28 days	≈ 1.5 N/mm²	EN 13892-8
Resistance to:		
- compressive after 24 h	≥ 15 N/mm²	EN 13892-2
- compressive after 7 days	≥ 25 N/mm²	EN 13892-2
- compressive strength after 28 days	≥ 30 N/mm²	EN 13892-2
- flexural after 28 days	≥ 6 N/mm²	EN 13892-2
- abrasion after 24 hrs	≤ 200 mm²	EN 13892-2
- strain parallel to the laying surface after 28 days	> 2.5 N/mm²	UNI 10827
Surface hardness after 28 days	≥ 50 N/mm²	EN 13892-6
Conformity	CT–C30–F6	EN 13813

Values taken at +23 °C, 50% 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 Keratech R10 Zero to correct substrate irregularities greater than 10 mm
→ do not add other binders or additives to the mixture
→ low temperatures and high relative humidity lengthen the drying time and can saturate the environment; this may have a negative effect on the quality of the surface of the self-levelling product
→ 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 unstable wooden types, particular substrates and for any other issues, contact the Kerakoll Worldwide Global Service +39 0536.811.516 – globalservice@kerakoll.com

Kerakoll Quality System ISO 9001 CERTIFIED IT10/0327
Kerakoll Quality System ISO 45001 CERTIFIED 18586-I

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