Keralevel® Eco

Certified, thixotropic, eco-friendly, normal-setting mineral levelling product for the high-performance correction and extended workability of irregular substrates, ideal for use in GreenBuilding. With very low volatile organic compound emissions, recyclable as an inert material at the end of its life.

Keralevel® Eco develops extended workability times, thereby guaranteeing the correction of large surfaces even in extreme climatic conditions with a smooth finish that is ideal for the subsequent laying of coverings using eco-friendly adhesives.

CE EN 13813 | CLASS CHARACTERISTICS CT C25-F6 EN 13813 STANDARD | GEV-EMICODE EC 1 PLUS | CO2eq Carbon Footprint | CONTRIBUTES TO LEED POINTS

GREENBUILDING RATING®

Keralevel® Eco
- Category: Inorganic mineral products
- Preparation of the substrates
- Rating: Eco 2

eco2	Regional Mineral ≥ 60 %	Recycled / Regional Mineral ≥ 30 %	CO_2 ≤ 250 g/kg	Low Emission IAQ VOC Indoor Air Quality	Recyclable
				✓	✓
				Very low VOC emissions	Can be recycled as inert material

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

- Internal, external
- Suitable for laying ceramic and porcelain tiles, natural stone, hardwood floors and resilient materials using adhesives

AREAS OF USE

Use
Levelling of uneven substrates, with normal setting and drying and compensated shrinkage. Thicknesses up to 10 mm. In domestic, commercial and industrial applications and on heat-radiant slabs.

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

Before laying:
- porcelain and ceramic tiles, klinker, cotto of all types and formats,
- natural stones and agglomerate materials,
- hardwood floors, textile coverings, rubber, PVC, linoleum,
- varnishes and paints

Suitable for use on cement-based plasters or lime and cement mortars, on cement screeds or screeds made using Keracem® Eco Pronto or Keracem® Eco as eco-friendlly binder or ready-for-use premixed products, cement-based screeds, concrete and residual traces of cement-based adhesives.

Do not use
On highly flexible substrates subject to thermal expansion, or on wet surfaces or substrates subject to continuous moisture rising.

Keralevel® Eco Code: F105 2018/08-UK

KERAKOLL
The GreenBuilding Company

INSTRUCTIONS FOR USE

Preparation of substrates
Substrates must be stable, dry, free from any rising damp, without cracks, free from dust, oil, grease and loose, flaky parts. On substrates which are compact but very absorbent, apply Primer A Eco, eco-friendly, water-based surface isolation, in order to reduce and regulate the level of absorption.

Instruction for use
Prepare Keralevel® Eco in a clean container, first of all pouring in a quantity of water equal to approximately ¾ of the amount required. Gradually add Keralevel® Eco to the water in the container, mixing the paste with a suitable low-rev (≈ 400/min.) electric mixer. Then add more water until a smooth, lump-free mortar is obtained. Keralevel® Eco is immediately ready for use. The amount of water to be added, indicated on the packaging, is an approximate guide. Adding extra water does not improve the workability of the levelling product, and may cause shrinkage during drying and result in less effective final performance with a reduction in surface hardness, compressive strength and adhesion to the substrate.
Keralevel® Eco is applied with a smooth trowel. Due to the highly thixotrpic structure of the mixture this allows for high levelling thicknesses with just one coat. 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,. For subsequent laying of ceramic tiles it is always advisable to obtain a roughened surface.

Tools
Electrical mixer, spreader and trowel. Wash tools with water before the product hardens.

SPECIAL NOTES

In the case of wooden substrates that are deformable or subject to movement, apply Keragrip Eco eco-friendly, water-based, single-component adhesion promoter to the clean substrate, following the instructions for use. Fix a suitable anti-alkali fibre mesh and mix Keralevel® Eco with Keraplast Eco P6 eco-friendly, water-based latex in place of the mixing water, until the required consistency is obtained.
Continuous, extensive areas need to be fractionized with elastic joints so as to create areas of ≈ 50 m^2.
Gypsum-based screeds must be dry, sanded and vacuum cleaned according to the manufacturer's instructions and insulated with Primer A Eco eco-friendly, concentrated, water-based surface insulation.
For subsequent laying of hardwood floors, create a smooth finish with thickness ≥ 3 mm.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	Pre-mixed	
Specific weight	≈ 1.45 kg/dm^3	UEAtc/CSTB 2435
Mineralogical nature of inert material	Crystalline carbonate	
Grading	≈ 0 – 600 µm	UNI 10111
Shelf life	≈ 12 months in the original packaging in dry environment	
Pack	25 kg bags	
Mixing water	≈ 6.5 ℓ / 1 x 25 kg bag	
Specific weight of the mixture	≈ 1.86 kg/dm^3	UNI 7121
Pot life	≥ 4 hrs	
Temperature range for application	from +5 °C to +35 °C	
Maximum thickness	from 1 to 10 mm	
Foot traffic	≈ 24 hrs	
Waiting time before laying:		
- ceramic tiles, terracotta	≈ 24 hrs	
- hardwood floors, resilient materials and natural stone		≈ 3 days
Coverage	≈ 1.5 kg/m^2 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.

KERAKOLL
The GreenBuilding Company

PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS		
Conformity	EC 1-R plus GEV-Emicode	GEV certified 2954/11.01.02
HIGH-TECH		
Adhesion to concrete after 28 days	≥ 1 N/mm²	EN 13892-8
Resistance to:		
- compressive strength after 28 days	≥ 25 N/mm²	EN 13892-2
- flexural after 28 days	≥ 6 N/mm²	EN 13892-2
- abrasion after 28 days	≤ 250 mm³	EN 12808-2
Surface hardness after 28 days	≥ 40 N/mm²	EN 13892-6
Conformity	CT – C25 – 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

- Product for professional use
- abide by any standards and national regulations
- do not use Keralevel® Eco for levelling purposes or for the correction of substrate irregularities greater than 10 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 01527 578000 - info@kerakoll.co.uk

Keralevel® Eco Code: F105 2018/08-UK

KERAKOLL UK Ltd.
Unit 4, The Croft, Buntsford Gate Business Park
Bromsgrove, Worcestershire B60 4JE, United Kingdom
Tel +44 01527 578000 - Fax +44 01527 578170
info@kerakoll.co.uk - www.kerakoll.com