

Keralevel® Eco

Certified, non-sag, 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 fixing of coverings using eco-friendly adhesives.



GREENBUILDING RATING®

Keralevel® Eco

- Category: Inorganic Mineral Products
- Class: Levelling mineral products for surfaces
- Rating: Eco 2

				 Very low VOC emissions	 Can be recycled as inert material

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

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



AREAS OF USE

Use

Levelling of irregular substrates with normal setting and compensated shrinkage. Thicknesses up to 10 mm.

Compatible 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:

- vitrified tiles, ceramic tiles of all types and formats
- natural stone, recomposed materials, marble
- hardwood floors, textiles, rubber, PVC, linoleum
- varnishes and paints

Surfaces:

- cement plasters and cement-lime mortar
- walls in concrete blocks or cellular concrete
- cement-based screeds or screeds produced with Biocem as a binder
- residual traces of cement-based adhesives

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

Do not use

On gypsum-based plasters or renders and anhydrite-based screeds without the previous application of the eco-friendly water-based surface insulation product Primer A Eco; on highly flexible surfaces subject to thermal expansion and plasterboard; on wet surfaces subjected to continual moisture rising.

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. In the case of absorbent substrates with weak consistency, apply Keradur Eco eco-friendly, water-based deep consolidant.

INSTRUCTIONS FOR USE

Preparation

Prepare Keralevel® Eco in a clean container by pouring in $\approx \frac{3}{4}$ of the water required. Gradually add Keralevel® Eco to the water, mixing the paste with a low-rev (≈ 400 /min.) helicoidal agitator. Add water until a homogeneous, lump-free mortar is obtained. The amount of water to be added, indicated on the packaging, is an approximate guide.

Application

Apply Keralevel® Eco with a smooth trowel. The high level of non-sag effect of the mixture allows for high finishing thicknesses with just one coating. It is generally advisable to apply an initial fine layer, pressing the product down to obtain maximum adhesion to the substrate and to adjust water absorption of subsequent layers. The appearance of the finish will vary depending on whether a smooth steel trowel or a sponge spreader has been used for application. For subsequent fixing of ceramic tiles it is always advisable to obtain a roughened, porous surface.

Cleaning

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

SPECIAL NOTES

Gypsum substrates must be dry and waterproofed with the Primer A Eco eco-friendly, water-based surface isolation. Prepare smooth, low-absorption substrates by mechanical abrasion or by applying Keragrip Eco eco-friendly adhesion promoter. In the case of substrates subjected to flexure apply Keragrip Eco, attach an anti-alkali mesh with 4x5 mm mesh size and mix Keralevel® Eco with P5 Eco, eco-friendly, water-based latex.

ABSTRACT

Certified, high-performance levelling of substrates from 1 to 10 mm thickness must be carried out using a non-sag eco-friendly mineral levelling product, with normal setting and prolonged workability, such as Keralevel® Eco by Kerakoll Spa, compliant with EN 13813 class CT - C25 - F6, GreenBuilding Rating® Eco 2, suitable for subsequent fixing of tiles after $\approx 12/24$ hrs and for laying of natural stone, parquet and resilient materials $\approx 3/5$ days after application, at +23 °C 50% R.H. Apply the product using a smooth trowel on the previously prepared, clean and dimensionally stable substrate and finish with a rigid float. Average coverage: ≈ 1.5 kg/m² per mm of thickness created.

TECHNICAL DATA COMPLIANT WITH KERAKOLL QUALITY STANDARD

Appearance	Pre-mixed	
Specific weight	$\approx 1,45$ kg/dm ³	UEAtc/CSTB 2435
Mineralogical nature of inert material	crystalline carbonate	
Grading	$\approx 0 - 600$ μ m	UNI 10111
Shelf life	≈ 12 months in the original packaging in dry environment	
Pack	25 kg bags	
Mixing water	$\approx 6,5$ ℓ / 1 bag 25 kg	
Specific weight of the mixture	$\approx 1,86$ 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 fixing:		
- ceramic tiles, terracotta	≈ 24 hrs	
- hardwood floors, resilient materials and natural stone	≈ 3 days	
Coverage	$\approx 1,5$ 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.

PERFORMANCE

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS

Conformity	EC 1-R plus GEV-Emicode	GEV certified 2954/11.01.02
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HIGH-TECH

Adhesion to concrete after 28 days	$\geq 1 \text{ N/mm}^2$	EN 13892-8
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Resistance to:

- compressive strength after 28 days	$\geq 25 \text{ N/mm}^2$	EN 13892-2
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- flexural after 28 days	$\geq 6 \text{ N/mm}^2$	EN 13892-2
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- abrasion after 28 days	$\leq 250 \text{ mm}^3$	EN 12808-2
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Surface hardness after 28 days	$\geq 40 \text{ N/mm}^2$	EN 13892-6
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Conformity	CT – C25 – F6	EN 13813
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LEED®

LEED® Points Contribution*	LEED® Points	
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MR Credit 4 Recycled materials content	up to 2	GBC Italia
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Q1 Credit 4.1 Low-Emitting Materials	up to 1	GBC Italia
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Values taken at +20 °C, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

*LEED® is an environmental performance measurement system designed for new and existing commercial, institutional, and residential buildings, based on energy and environmental principles commonly recognized and accepted by the international scientific community. The LEED® building sustainability assessment system is a voluntary system. To calculate the score, consult the rules provided by the Italy LEED® Manual (edition 2009).
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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 fixing 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 India Helpline (Toll Free) 1800-200-6550 - info@kerakollindia.com

The Eco and Bio classifications refer to the GreenBuilding Rating® Manual 2012. This information was last updated in April 2015 (ref. GBR Data Report - 05.15); please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.

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The GreenBuilding Company

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