Code: E739 2025/05 EN

Keraklima Eco

Eco-friendly, mineral adhesive&finishing product, suitable for the high-performance bonding and finishing of insulating panels for use as external thermal insulation.

Keraklima Eco is specifically intended for bonding and finishing thermal insulation panelling systems on heat-insulating panels made of extruded polystyrene, expanded polystyrene and polystyrene foam for specific use in ETICS plinths, polyurethane, phenolic resin, cork, mineral and glass wool, wood fibre, aerogel, on concrete, cement-based plaster/render, mineral and cement-based finishing products. White and grey. For internal and external use.

1. High level of adhesion for a safe laying on the building site
2. Excellent workability to facilitate the application when used as a finishing product
3. Can be applied by spraying using plastering machines to speed up the job
4. Fine granular texture finish
5. Product in the Klimaexpert ETA EPS system
6. Suitable for Klimaexpert Fire Protection kits
7. White and grey

Rating 4

GREENBUILDING RATING
REF. GBR DATA REPORT 01.25
APPROVED

- ✓ Regional Mineral ≥ 60%
- × Recycled Regional Mineral ≥ 30%
- ✓ CO_2 Emission ≤ 250 g/kg
- ✓ VOC Low Emission
- ✓ Recyclable

kerakoll

Areas of application

→ Use
Bonding and finishing of panelling systems for:
- Klimaexpert ETA EPS Systems with European Technical Approval according to EAD 040083-00-0404
- Klimaexpert Fire Protection Kit
- external insulation
- internal insulation
- bonding of insulation slabs under roofing tiles

For internal and external use, on heat sealed insulating systems (ETICS) made of extruded polystyrene, expanded polystyrene and polystyrene foam for specific use in ETICS plinths, polyurethane, phenolic resin, cork, mineral and glass wool, wood fibre, aerogel on concrete, brick, cement-based plaster/render, mineral and cement-based finishing products.

Do not use on walls coated with gypsum or ready-mixed gypsum-based plasters; to apply ceramic or natural stone tiles; on wooden or metal supports.

Instructions for use

→ Preparation of substrates
The substrate must be perfectly even, solid (i.e. free of loose or easily removable debris), dimensionally stable, clean and dry. Substrates that are not compact must be treated in advance with Rasobuild Eco Consolidante stabilizing consolidant.
Check that there are no traces of de-bonding agent on the concrete. Any uneven areas should be corrected in advance with products in the Geolite or Geocalce range.
Do not apply on substrates when the temperature is above +30 °C.

→ Preparation
Keraklima Eco is prepared by mixing 25 kg of powder with the amount of water indicated on the bag. The mixture is obtained by pouring water into the clean container and then gradually adding the powder. The mixing process can be performed in a horizontal cement mixer or in a bucket (working manually or with a low-rev, mechanical stirring device) until a smooth and lump-free mortar is obtained.

→ Application
As an adhesive: according to the irregularity of the substrate, Keraklima Eco can be applied as an external rim with central spots or using a suitable toothed spreader to form a solid bed directly on the panel. The slabs must be pressed firmly onto the support so as to distribute the adhesive as evenly as possible and thus guarantee total adhesion of the slab itself.
For Klima Airplus and Airtech panels, apply the adhesive on the dove-tail adhesion-promoter ribbing.
Laying and any adjustment of the panels must always be carried out when the adhesive is fresh and just laid: any movement or adjustment of the panels once drying has started may cause the adhesion to be poor or the panels to come loose.
As a finishing product: when used as a finishing product on heat sealed panels, a first coat of Keraklima Eco is applied in an even layer using a smooth spreader; a suitable mesh for ETICS use should then be sunk into the layer while it is still wet, pressing it with the spreader. Once dry, apply a second coat, covering the mesh completely to create a finished surface which, on drying, can be used to lay high-thickness decorative coverings. On completion, the panels must be protected from rain for at least 48 hours.
Keraklima Eco can be applied by spraying using plastering machines.

→ Cleaning
Residual traces of Keraklima Eco can be removed from tools with plain water before the product has hardened.

Special notes

→ **When laying insulating panels, always follow the indications provided by the manufacturer of the panels themselves.**

→ **Laying on gypsum: on walls coated with gypsum, scagliola or ready-to-use gypsum-based plasters/ renders the substrate must be treated with Rasobuild Eco Consolidante before applying Keraklima Eco.**

Certificates and marks

EPD-IES-0015998 environdec.com

EN 998-1

N° 24/0626 DOP n° 0282

EMISSIONS 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

Application and finishing of the thermal insulation panels, with insertion of alkali-resistant, glass fibre mesh for ETICS use by Kerakoll Spa between the two layers, is to be carried out on a substrate that is even, solid, clean and dry. The panels must first be bonded and then surface finished using single-component, eco-friendly mineral adhesive&finishing product suitable for the high-performance bonding and finishing of all types of heat-insulating panels for ETICS use, GreenBuilding Rating 4, such as Keraklima Eco by Kerakoll Spa, specific for the creation of insulation panelling systems. Keraklima Eco adhesive&finishing product is part of the KlimaExpert ETA EPS systems with European Technical Approval - ETA - according to EAD 040083-00-0404. Coverage will be ≈ 2.5 - 4 kg/m² for bonding and ≈ 1.5 kg/m² for the finishing coat per mm of thickness.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	White or grey pre-mixed	
Apparent density of dry, hardened product	1440 kg/m³	EN 1015-10
Mineralogical nature of inert material	silicate – crystalline carbonate	
Nominal grading	≈ 0 – 1000 µm	EN 1015-1
Ash content at 450 °C	96,2%	EAD 040083-00-0404
Ash content at 900 °C	88,2%	EAD 040083-00-0404
Water retention	> 94%	EAD 040083-00-0404
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg bags	
Mixing water	≈ 5.5 l / 1 x 25 kg bag	
Specific weight of the mixture	≈ 1,60 kg/dm³	EN 1015-6
Pot life	≥ 5 hrs	
Temperature range for application	from +5 °C to +30 °C	
Maximum thickness obtainable as adhesive	≤ 15 mm	
Coverage:		
- as an adhesive	≈ 2,5 – 4 kg/m²	
- as a finishing coat	≈ 1.5 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.

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 plus GEV-Emicode	GEV certified 4061/11.01.02
HIGH-TECH		
Thermal conductivity ($\lambda_{10,\ dry}$)	0,45 W/(m K)	EN 1745
Specific thermal capacity (c)	1,0 kJ/(kg K)	EN 1745
Adhesion to concrete after 28 days	≥ 0,9 N/mm²	EAD 040083-00-0404
Adhesion to masonry after 28 days	≥ 0,7 N/mm²	EAD 040083-00-0404
Adhesion between adhesive and EPS	≥ 0,15 N/mm² (EPS cohesive tear)	EAD 040083-00-0404
Water capillary absorption	0,26 kg/m²	EAD 040083-00-0404
Compressive strength	≥ 8 MPa	EN 1015-11
Resistance to the diffusion of water vapour	μ 16	EN 1015-19
Flexural strength	≥ 6 MPa	EN 1015-11
Reaction to fire	class A1	EN 13501-1
Working temperature	from -15 °C to +80 °C	

Values taken at +23 °C, 50% 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
→ use at temperatures between +5 °C and +30 °C
→ only use water when mixing up the powder: do not use latex or other additives
→ provide suitable mechanical hooks in compliance with current regulations
→ do not use the adhesive to correct substrate irregularities
→ do not move the panels once the adhesive has started to harden
→ do not lay on gypsum, metal or wood
→ do not lay on damp substrates
→ protect the coated surfaces from rain for at least 48 hours
→ 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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