Code: E1230 2025/01 EN

Klima Light Calce

Low-density, mineral, single-component Adhesive&Finishing product based on NHL natural hydraulic lime, for the laying and subsequent finishing of natural and mineral heat-insulating panels for ETICS use. Product specified for the ETICS Klimaexpert ETA System with European Technical Approval.

Lime-based, low-density, mineral Adhesive&Finishing product for insulation, specifically intended for the laying and finishing of thermal insulation panelling systems such as mineral and glass wool, wood fibre, cork, calcium silicate hydrates on concrete, brick, cement-based plaster/render, mineral and cement-based finishing products. Beige. For internal and external use.

Rating 5

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

1. Based on natural hydraulic lime NHL
2. Maximum breathability to water vapour
3. High wettability even on long-fibre insulating panels
4. Excellent workability: superior fluidity finishing product, easy and light to spread
5. Extremely high coverage; up to 50% more in finishing compared to traditional adhesive&finishing products
6. Can be applied using plastering machines
7. Euroclass A1 reaction to fire, thanks to the low-density mineral inert material
8. Product in the Klimaexpert ETA MW system
9. Suitable for Klimaexpert Fire Protection kits

kerakoll

Areas of application

→ Use
Bonding and finishing of panelling systems for:
- Klimaexpert ETA MW with European Technical Approval - ETA - according to EAD 040083-00-0404
- external insulation
- internal insulation
- Klimaexpert Fire Protection Kit

Internal and external use on heat sealed insulating systems (ETICS) such as mineral and glass wool, wood fibre, cork, calcium silicate hydrates 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
Klima Light Calce is prepared by mixing 20 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 evenness of the substrate, Klima Light Calce can be applied as an external rim with three central spots or full-bed laying directly on the panel, using a suitable toothed spreader. 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. 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 Klima Light Calce 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 the first coat has dried, apply a second coat over the top, 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. Klima Light Calce can be applied by spraying using plastering machines.

→ Cleaning
Residual traces of Klima Light Calce can be removed from tools with plain water before the product has hardened.

Special notes

→ When laying heat-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, the substrate must be treated with Rasobuild Eco Consolidante before applying Klima Light Calce.

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

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 a lime-based, low-density, mineral, single-component Adhesive&Finishing product, suitable for the laying and the subsequent finishing of all types of heat-insulating panels for ETICS use on absorbent substrates, such as Klima Light Calce by Kerakoll Spa, specific for the creation of insulation panelling systems and meeting the requirements of the European Assessment Document EAD 040083-00-0404 for insulation with panelling systems. Coverage will be ≈ 2-3.5 kg/m² for bonding and ≈ 0.95 kg/m² for the finishing coat per mm of thickness.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	beige pre-mixed	
Apparent density of dry, hardened product	1.05 kg/dm³	EN 1015-10
Mineralogical nature of inert material	silicate – crystalline carbonate	
Nominal Grading	≈ 0 – 1200 µm	EN 1015-1
Ash content at +450 °C	96.7%	EAD 040083-00-0404
Ash content at +900 °C	70.2%	EAD 040083-00-0404
Water retention	> 90%	EAD 040083-00-0404
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	20 kg bags	
Mixing water	≈ 6.4 l / 1 bag 20 kg	
Specific weight of the mixture	≈ 1,2 kg/dm³	EN 1015-6
Pot life	≥ 5 hrs	
Temperature range for application	from +5 °C to +30 °C	
Maximum thickness obtainable as adhesive	≤ 20 mm	
Maximum thickness obtainable when used as a finishing product	≤ 15 mm (two coats with an inserted insulation panelling system mesh)	
Coverage:		
- as an adhesive	≈ 2 – 3.5 kg/m²	
- as a finishing coat	≈ 0.95 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	Cert. GEV 13369/11.01.02
HIGH-TECH		
Thermal conductivity ($\lambda_{10,\ dry}$)	0.28 W/(m K)	EN 12664
Specific thermal capacity (c)	0.7 kJ/(kg K)	ISO 11357-4
Adhesion to concrete after 28 days	≥ 0.8 N/mm²	EAD 040083-00-0404
Adhesion between adhesive and MW	≥ 0.01 N/mm² (MW cohesive tear)	EAD 040083-00-0404
Compressive strength	≈ 8 MPa	EN 1015-11
Resistance to the diffusion of water vapour	μ 10	EN 1015-19
Water capillary absorption	0.35 kg/m²	EAD 040083-00-0404
Flexural strength	≈ 3 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

Kerakoll Quality System ISO 9001 CERTIFIED IT10/0327

Kerakoll Quality System ISO 45001 CERTIFIED 18586-I

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo - MO

+39 0536.816.511
info@kerakoll.com

www.kerakoll.com