

# Klima Fix

ETICS adhesive-finishing product for the laying of heat-insulating panels on absorbent substrates.

Klima Fix 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. For all types of insulation panelling systems
2. High workability
3. Product of Klimaexpert ETA EPS and Klimaexpert ETA MW Systems
4. Suitable for Klimaexpert Fire Protection kits
5. White and grey

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## Areas of application

### → Use

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

For internal and external use, on heat sealed insulating systems (ETICS) made of extruded polystyrene, expanded polystyrene and

polystyrene foam for ETICS specific use, 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.

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## 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 Universal Wall Primer or Rasobuild 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 Fix 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, Klima Fix 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. 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 Fix 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. 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 Fix can be applied by spraying using plastering machines.

For applications in heat-insulating systems, refer to the national regulations.

### → Cleaning

Residual traces of Klima Fix can be removed from tools with plain water before the product has hardened.

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## 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 Universal Wall Primer or Rasobuild Consolidante before applying Klima Fix.

## Certificates and marks



## 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, mineral adhesive&finishing product suitable for the bonding and finishing of all types of heat-insulating panels for ETICS use, such as Klima Fix by Kerakoll Spa, specific for the creation of insulation panelling systems. Klima Fix adhesive&finishing product forms part of the Klimaexpert ETA EPS and Klimaexpert ETA MW systems with European Technical Approval - ETA - under EAD 040083-00-0404. Coverage will be  $\approx 2.5 - 4 \text{ kg/m}^2$  for bonding and  $\approx 1.5 \text{ kg/m}^2$  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	1420 kg/m <sup>3</sup>	EN 1015-10
Mineralogical nature of inert material	silicate – crystalline carbonate	
Nominal grading	$\approx 0 - 1400 \mu\text{m}$	EN 1015-1
Ash content at 450 °C	98.4%	EAD 040083-00-0404
Ash content at 900 °C	86.2%	EAD 040083-00-0404
Water retention	> 96%	EAD 040083-00-0404
Shelf life	$\approx 12$ months from production in the original sealed packaging, protect from humidity	
Pack	25 kg bags	
Mixing water	$\approx 5.5 \text{ l} / 1 \times 25 \text{ kg bag}$	
Specific weight of the mixture	$\approx 1.60 \text{ kg/dm}^3$	EN 1015-6
Temperature range for application	from +5 °C to +30 °C	
Maximum thickness obtainable as adhesive	$\leq 15 \text{ mm}$	
Coverage:		
- as an adhesive	$\approx 2.5 - 4 \text{ kg/m}^2$	
- as a finishing coat	$\approx 1.5 \text{ kg/m}^2$ 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 7907/11.01.02
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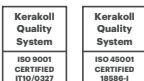
**HIGH-TECH**

Thermal conductivity ( $\lambda_{10, dry}$ )	0.43 W/(m K)	EN 1745
Specific thermal capacity (c)	1.0 kJ/(kg K)	EN 1745
Adhesion to concrete after 28 days	$\geq 0.9$ N/mm <sup>2</sup>	EAD 040083-00-0404
Adhesion to masonry after 28 days	$\geq 0.25$ N/mm <sup>2</sup>	EAD 040083-00-0404
Adhesion between adhesive and EPS	$\geq 0.08$ N/mm <sup>2</sup>	EAD 040083-00-0404
Water capillary absorption	0.45 kg/m <sup>2</sup>	EAD 040083-00-0404
Compressive strength	$\geq 7$ MPa	EN 1015-1
Resistance to the diffusion of water vapour	$\mu$ 5/20	EN 1745
Flexural strength	$\geq 3.5$ MPa	EN 1015-1
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

- 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, please contact the Kerakoll Worldwide Global Service +39 0536 811 516



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