

CLIMAROOF[®] KF-2

Waterproofing, flexible, leveling,
2-component cementitious mortar
for flat roofs and horizontal surfaces



- » Unique-innovative combination of waterproofing, flexibility and leveling properties
- » Excellent protection against moisture penetration.
- » High flexibility.
- » Strong adhesive properties on a variety of substrates.
- » High surface strength and weather resistance.
- » Ease of application (standing applicator).

ClimaRoof[®] KF-2 is a waterproofing, flexible, leveling 2-component cementitious mortar with advanced formulation that contains a complex of new generation resins specially designed to react with selected elastomeric and hydrophobic polymers, as well as with high quality quartz aggregates. It shows high adhesion to various types of substrates while providing excellent protection against moisture penetration

and resistance to surface abrasion. It is classified as coating for surface protection of concrete according to **EN 1504-2** & **EN 1504-9:2008** (Principle PI protection against moisture penetration – Method 1.3, Principle MC -moisture control – Method 2.3, Principle PR - surface protection – Method 5.1, Principle IR – durability increase – Method 8.3).

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FIELD OF APPLICATION

ClimaRoof® KF-2 is used as part of Lightweight Thermal & Water Insulation System ClimaRoof® by BIOCLIMA®, as final layer, waterproofing and protection material of ClimaRoof® KF-XPS, XPS Etics GF or ClimaRoof® KF-XPS Incline extruded polystyrene thermal insulation boards. It offers a final layer of high surface strength and weather resistance.

Also, it could be used as final layer, waterproofing material on flat roofs (terraces) and horizontal surfaces, reinforced with alkali resistant glass fiber mesh ClimaRoof® KF-Net. It ensures protection against moisture penetration and provides better surface walkability than other liquid waterproofing membranes.

TECHNICAL DATA (Measurement conditions 20°C and 50% Relative Humidity)	
Color	ClimaRoof KF-2: white mortar ClimaRoof KF-2 Resin: white resin
Mixing ratio	6,0kg ClimaRoof KF-2 Resin in 25kg ClimaRoof KF- 2
Maximum grain size of mortar	1mm
Bulk density of dry mortar	1,60±0,05 kg/l
Bulk density of resin	1,00 ±0,05 kg/l
Bulk density of fresh mortar	1,98±0,05 kg/l
Application temperature	From +10°C up to +30°C
Min/max layer thickness	1-2mm per layer
Pot life	45 min
Time for the 2nd layer of application	6-24 hours after the first layer
Mild walkability	6 hours after completed the application
Consumption	1,0-1,5kg/m ² per/mm

PRODUCT PERFORMANCES	
Permeability to CO ₂ EN 1062-6	$s_D = 250m$
Permeability to water vapor EN ISO 7783-2	$s_D = 1,9m$ (Class I, permeable to water vapour)
Capillary absorption & permeability to water, EN 1062-3	$w \leq 0,04 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Pull-off test EN 1542	$\geq 1,60 \text{ N/mm}^2$
Adhesion to XPS EN 13494	$\geq 0,580 \text{ N/mm}^2$
Abrasion resistance EN ISO 5070-1	$\leq 50 \text{ mg/1000cycles}$
Impact resistance EN ISO 6272-1	$\geq 9 \text{ Nm (Class I)}$
Reaction to fire after application EN 13501-1	B- s1, d0

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DIRECTIONS FOR USE:

1. SUBSTRATE - PREPARATION: To ensure better adhesion, the surface is required to be flat, solid, dry, clean and free of dust, oils, salts, rust, loose paint and residues, swollen paints, etc. **ClimaRoof® KF-2** has very good adhesion to standard structural surfaces (eg concrete, cement mortar, brick, cement board). Light soaking with water before use is recommended. It also has very good adhesion to substrates of acrylic waterproofing and decorative tiles, which are well anchored and without surface damage. On highly absorbent surfaces priming is recommended, using micromolecular acrylic primer **Eco Dur Aqua by KRAFT PAINTS**. On demanding substrates like: asphalt sealants, polyurethane liquid membranes, decorative tiles, etc... which are well anchored and without surface alteration, priming is recommended with **Epoxy Aqua Floor Primer by KRAFT PAINTS** with simultaneous application of quartz aggregates.

2. MIXING: In a clean container add 6Kg of **ClimaRoof® KF-2 Resin** and gradually empty the contents of a 25Kg bag of **ClimaRoof® KF-2** product. Stirring constantly with a low speed mixer so that a homogeneous paste is obtained. Allow the mixture to rest for about 5 minutes and repeat stirring for a while. The mixture is ready for use for the next 45 minutes (at 25°C). It is forbidden to add extra resin to correct the workability of the mortar. This will reduce workability and increase shrinkage.

IMPORTANT NOTES:

Stir the product before use and at regular intervals during application with a mechanical drill. For better workability of the mixture during first layer application of **ClimaRoof® KF-2** add up to 1lt extra water to the mixture. Do not apply at temperatures below +5 °C and above +30 °C

3. APPLICATION: Application as part of ClimaRoof® System: **ClimaRoof® KF-2** is spread on the surface of the extruded polystyrene thermal insulation boards **ClimaRoof® KF-XPS**, **XPS Etics GF** or **ClimaRoof® KF-XPS Incline** covering the entire surface without gaps, using a metal spatula (with pole or without). Application is completed in 2 layers crosswise. During first layer, reinforcement with anti-alkaline glass mesh **ClimaRoof® KF-Net** is obligatory, taking care that strips of the mesh must overlap by 10cm. After drying, a second layer of **ClimaRoof® KF-2** is applied. Application thickness is 1-2mm per layer and maximum total thickness of the layers should not exceed 4mm.

Application as waterproofing material: Apply **ClimaRoof® KF-2** on the entire selected substrate without gaps, using a metal spatula (with pole or without). Application is completed in 2 layers crosswise. During first layer, reinforcement with anti-alkaline glass mesh **ClimaRoof® KF-Net** is obligatory, taking care that strips of the mesh must overlap by 10cm. After drying, a second layer of **ClimaRoof® KF-2** is applied. Application thickness is 1-2mm per layer and maximum total thickness of the layers should not exceed 4mm.

4. CLEANING OF TOOLS: Immediately after the application tools must be cleaned with warm water and soap or a detergent solution. Remove as much material as possible from tools before cleaning.

as well as at humidity levels above 65%. Do not apply in case of frost forecast for at least next 24 hours after application. Do not apply in case of impending rain or in direct intense sunlight and wind currents.

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CONSUMPTION:

The consumption of ClimaRoof® KF-2 is about 1,0-1,5 kg/m²/mm. It depends on type of substrate, the type of thermal insulation boards, and also tools, conditions and method of application.

PACKAGING - SHADES:

The product is packaged in 25Kg valve paper bags in White shade (A Component) and in plastic containers of 6Kg Resin (B Component).

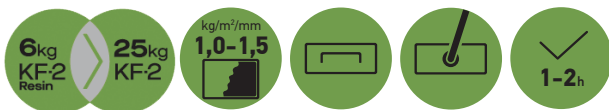
STORAGE:

Stored on wooden pallets in a dry environment with temperature above 5°C for 12 months from the production date.

HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

Read label before use. For further information please consult the Material Safety Data sheet.

Poison Centre Telephone +30 210 7793 777.




CERTIFIED SYSTEMS
ISO 9001 ISO 140001 ISO 50001 ISO 45001

07/2024 THIS TECHNICAL DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS RELEVANT TO THIS PRODUCT

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DISCLAIMER: The above technical data, information, recommendations and guidance are based on scientific and technical knowledge, laboratory studies and long experience. However, the above information is considered to be as indicative and should be reviewed in any case in relation to each specific application conditions. Consequently, the suitability of each product in any application must be evaluated after referring to the updated Technical Data Sheet and to the website www.kraftpaints.gr, as well as after contacting the technical support department, in case of necessity. Our company guarantees the quality of the product itself, whilst in any case the user/applicant is exclusively responsible for any undesirable failures after using the product.

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22 DoP No 03.36 ClimaRoof® KF-2 EN 1504-2:2004 Coating (C) for surface protection of concrete structures according to principles 1 (PI), 2 (MC) 5 (PR) and 8 (IR)	
Reaction to fire	B-s1, d0
Permeability to CO ₂	S _D > 50 m
Permeability to Water Vapour	Class I
Capillary Absorption and permeability to water	w < 0.1 kg/m ² · h ^{0.5}
Adhesion strength by pull-off test	≥0.8 N/mm ²
Abrasion resistance	weight loss < 3000 mg
Impact resistance	Class I
Dangerous substances	See SDS

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