

## ARGOTEC HERMETIC

Cement-based airtight membrane for Nearly Zero Energy and Passivhaus Buildings



ARGOTEC® HERMETIC is a super-flexible, single-component, polymer modified mortar (PCC) for bonding different materials, formulated with special polymers, binders and multifunctional fillers that give it extraordinary elasticity, airtightness and adhesion to a wide range of substrates.

### Presentation

- Appearance: Powder
- Colour: Grey
- Weight (kg): 4
- Yield (kg/m<sup>2</sup>): 2 kg/m<sup>2</sup> y 2 mm de espesor
- Performance in mm thickness (kg/m<sup>2</sup>): 1,2
- Product code: 350246

### Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m <sup>2</sup> )	4	-
Capillary Absorption (kg/m <sup>2</sup> h <sup>0.5</sup> )	W2	-
Adhesion after thermal compatibility (N/mm <sup>2</sup> )	≥ 0,8	-
Direct Tensile Adhesion (N/mm <sup>2</sup> )	≥ 0,8	-
Mixing water (%)	23/25	-
Thermal conductivity declared (W/mK)	0,47	-
Bulk density (kg/L)v ~ Value	1,20 ± 0,05	-

Concept	Value	Standard
Fresh mass density (kg/L) ~ Value	1,40 ± 0,05	-
Maximum thickness (mm)	2	-
Minimum thickness (mm)	1	-
Grain size range (mm) ~ value	0/0,03	-
Water vapour permeability (m)	Clase I	-
Reaction to fire	A1	-
Compacting resistance 28 days (N/mm <sup>2</sup> )	≥ 7,5	-
Compacting resistance 7 days (N/mm <sup>2</sup> )	≥ 3	-
Hazardous substances	Ver HS	-

## Additional Technical Data

Concept	Value	Standard
CO2 permeability	Pasa	-

## Scope

- Mainly on the inside face of the building shell, contributing to the airtightness of the building.
- Union between supports of the same or different materials, such as roofs and enclosures, floors and enclosures, window jambs, pipe frames, especially suitable as an airtight layer in nearly zero-energy and passivhaus buildings.

## Advantages & Benefits

- High level airtight properties.
- Highly flexibility and has an ability to re-form against differential movements.
- Cures and hardens without cracking.
- Outstanding Adhesion
- Excellent value for money
- Excellent workability.
- Impervious to water.
- Permeable to water vapour.
- It can be applied with a brush, paintbrush or roller.

## Support

- Steel.
- Aluminium.

- Concrete block.
- Mortar renderings.
- Concrete/Screed.
- Brick.
- PVC sheets.
- Laminated plasterboard.

## **Substrate preparation**

- The substrates must be clean and sound, free of grease, paint or other substances that would prevent proper adhesion.

## **Instruction for Use**

- Knead ARGOTEC HERMETIC with the appropriate amount of water to achieve the optimum consistency (homogeneous, creamy, lump-free mixture with a thick paint-like appearance). The kneaded mortar should always be applied in a minimum of two coats so that a homogeneous coating is obtained.
- Apply the first layer of mortar with a brush, pressing on the substrate to ensure adherence in thicknesses of less than 2 mm, trying to ensure that the mortar covers the entire surface. The following coats shall be applied by brush or airless machine and in perpendicular directions once the previous coat has dried (4-24 h depending on environmental conditions)".

## **Warning**

- Preferably apply to the positive layer (the one that receives the water pressure).
- Avoid accumulating too much material in joints or fillers to prevent cracking.
- Singular points shall be dealt with in an appropriate manner.
- Do not apply when there is a risk of frost, rain, strong wind or direct sunlight.
- Do not apply below 5°C or above 30°C.
- Protect the cool surface from direct sun, rain and especially draughts.

## **Handling, storage and preservation**

- It is packaged in a 4 kg plastic jar that allows it to be stored for 12 months in its original sealed packaging, safe from dampness.

## **Safety and hygiene**

- Disposal of the product and its packaging must be carried out in accordance with current legislation and is the responsibility of the end consumer of the product.
- For any information concerning safety issues in the use, handling, storage or disposal of chemical residues, users should refer to the most recent version of the MSDS.

## **Notice**

- The information contained in this document and any other advice provided, are given in good faith,

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