



# ISOBELL

## ENVELOPE SOLUTION

The system designed for exterior walls, for the restoration of deteriorated building envelopes and damaged external insulation systems (ETICS).

ENVELOPE SOLUTION

# WHAT IS ISOBELL

**ISOBELL is a patented thermal insulating vapor control membrane that solves envelope problems.**

It is an innovative thin-layer solution, made with materials and methods completely different from those commonly used in construction. Lightweight and flexible, it enables the restoration and thermal insulation of walls and envelopes, providing protection and preservation for buildings.

Installation is quick and non-invasive.

The membrane is supplied in rolls and applied to walls using a specific adhesive. Ideal for restoration or renovation works, it can be used both indoors

and outdoors, even on complex surfaces or where volumetric constraints apply, without causing inconvenience to occupants.

The material consists of a nonwoven fabric made from 100% recycled PET polyester, coated with a special water-based acrylic flame-retardant compound. Certified and VOC-free, meaning free of volatile organic compounds, it contributes to a healthier indoor environment.



## **REDUCES HEAT LOSS AND SAVES ENERGY.**

This system acts as a THERMAL BARRIER and can increase the energy savings of a standard non-insulated wall by up to 35%.



## **LEVELS OUT THERMAL BRIDGES AND PROTECTS AGAINST MOLD.**

By increasing the surface temperature, it is the best solution to prevent moisture condensation.



## **PREVENTS MICROCRACKS AND PROTECTS THE ENVELOPES.**

Its high tear resistance and elastic behavior minimize surface stresses, preventing the formation of hairline cracks.



## **EXCELLENT BREATHABILITY FOR IMPROVED INDOOR COMFORT.**

The Sd value (m) is 0.27. Thanks to its high breathability, the material can regulate the relative humidity in indoor environments.



## **EXCELLENT AIRTIGHTNESS, WIND-RESISTANT.**

ISOBELL proves to be an ideal solution for retrofitting, with an airtightness value of  $0.16 \text{ m}^2 / (\text{m}^2 \cdot \text{h} \cdot 50\text{Pa})$ , capable of preventing air from carrying vapor and heat, and from affecting the temperature.



## **ALSO IDEAL OVER EXISTING EXTERNAL INSULATION SYSTEMS.**

Thanks to its flexibility and optimal adhesion, ISOBELL can be applied directly over old external insulation systems (ETICS) without the need for removal, demolition, or mechanical fixings (anchors).



## **FAST AND STREAMLINED INSTALLATION WITH REDUCED SITE COSTS.**

Its simple and clean application, combined with a reduced thickness, makes ISOBELL a unique solution for the restoration and enhancement of existing façades. Furthermore, the finish can be applied without reinforcing mesh, thanks to the material's intrinsic strength and stability, which ensure greater cohesion and durability of the coating.

# BUILDING ENEVELOPE PROTECTION

## BINDER



### PRIMER



Transparent fixing primer based on potassium silicate, designed for deep consolidation of the substrate and for neutralizing salts on the surface.

## STUCCO



### Adhesive skim coat

Acrylic resin-based product in ready-to-use paste form. Ideal for walls exposed to adverse weather conditions and with poor insulation, as well as for cracked walls. It forms a highly elastic and thermal system, and thanks to the perlite content, it maintains its dynamic properties over time. It can be applied to all types of plaster.



CE CAM



ISOHELL - Waterproof and breathable thermal membrane made of 100% recycled polyester, coated with a synthetic compound, VOC-free.

### SPECIFICATIONS

|                                        |          |
|----------------------------------------|----------|
| Thermal conductivity (W/mK)            | 0,036    |
| Emissivity                             | 0,59     |
| Density (kg/m <sup>3</sup> )           | 140      |
| Fire resistance                        | class E  |
| Thickness (mm)                         | 5,5+10%  |
| Operating temperature (°C)             | - 40/+80 |
| Water vapor transmission Sd (m)        | 0,17     |
| Mold resistance                        | high     |
| Pull-off strength (N/cm <sup>2</sup> ) | 30       |

The results were obtained through certified and standardized tests carried out at authorized and accredited external laboratories for testing building materials and components.





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**MADE IN ITALY**