

ISOBELL

THIN WALL LINING SOLUTION

The system designed for interior and exterior walls with rising damp, efflorescence, mold, and condensation problems.

UNIQUE SYSTEM FOR MOISTURE AND MOLD

WHAT IS ISOBELL

ISOBELL is a high-performance, patented breathable and thermal insulating membrane, made from a nonwoven fabric of 100% recycled polyester (PET) coated with a flame-retardant compound, completely VOC-free and compliant with the most stringent indoor air quality regulations.

The system is designed for non-invasive interventions on existing buildings, particularly where rising damp, thermal bridges, interstitial condensation, and surface mold are present—without the need for demolition or structural modifications.

The fabric composition allows selective diffusion of water vapor, promoting wall breathability while preventing the ingress of liquid water. This mechanism shifts or eliminates the dew point, preventing surface condensation and improving the wall's hygrothermal balance.

Its high insulating capacity and low surface emissivity increase the wall's surface temperature, reducing heat loss compared to traditional plasters and helping maintain a stable hygrothermal equilibrium.

ISOBELL also prevents damage from salt crystallization by keeping dissolved salts in solution, thus preserving the integrity of plasters over time.

Easy to apply dry, layerable, and reversible, it is particularly suitable for light energy retrofitting of residential, school, public, or heritage-protected buildings where high material compatibility, breathability, and aesthetic preservation of original surfaces are required, ensuring non-invasive hygrothermal remediation.

ISOBELL is a patented thermal insulating vapor control membrane that solves mold and condensation problems.

WHAT MAKES IT UNIQUE

Active Moisture Protection

- ☛ Water-repellent: blocks water penetration
- ☛ Breathable: allows vapor exchange, reducing surface evaporation
- ☛ Preserves masonry: prevents salt crystallization on the surface

Superior Thermal Comfort

- ☛ Thermal insulation: improves heat distribution
- ☛ Increased surface temperature: up to +4°C on treated walls (average)
- ☛ Radiant effect: more even heat distribution indoors

High Energy Efficiency

- ☛ Reduced heat loss: walls stay warmer for longer
- ☛ Low emissivity (~0.6): lower than traditional materials
- ☛ Energy savings up to 35%: for both heating and cooling

Long-Term Stability and Durability

VProtects masonry structures from physical and chemical agents

- ☛ Maintains the building's hygrothermal balance

Invisible Solution, Tangible Effect

- ☛ Deep technical action without altering aesthetics
- ☛ Ideal for interventions on inhabited or heritage-protected buildings



PROTECTS AGAINST RISING DAMP

Vapor-permeable yet waterproof, it protects against salt efflorescence and surface damage.



STABILIZES SALTS WITHIN THE MASONRY.

Eliminates the dew point and prevents salt migration, maintaining the wall's hygrothermal balance.



LEVELS OUT THERMAL BRIDGES AND PROTECTS AGAINST MOLD.

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



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.

INDOOR LIVING COMFORT



CE CAM



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

SPECIFICATIONS

Thermal conductivity (W/mK)	0,037
Emissivity	0,59
Density (kg/m ³)	140
Fire resistance	classe E
Thickness (mm)	5,5+10%
Operating temperature (°C)	- 40/+80
Water vapor transmission Sd (m)	0,27
Mold resistance	alta
Pull-off strength (N/cm ²)	30

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

PRIMERS



Primers



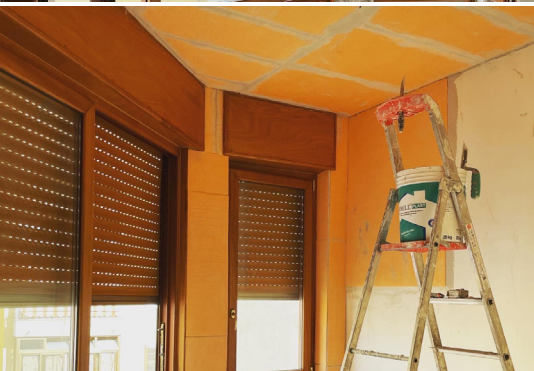
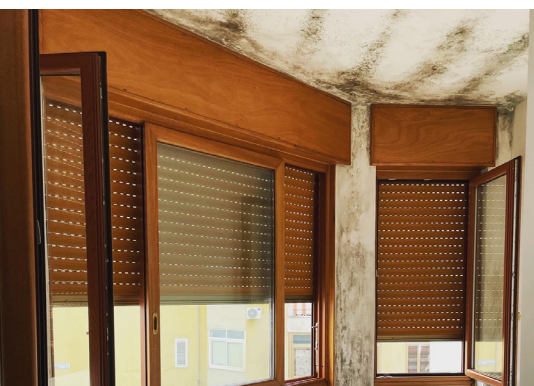
Thoroughly clean the deteriorated surface by removing dust, debris, mold, and impurities caused by moisture and salts. For this purpose, we offer our range of surface preparation products.

SiNERGY



“Adhesive, skim coat, and bonding primer

Unique hybrid mineral silicate based product, ready-to-use paste, ideal for applications on surfaces affected by rising damp, mold, condensation, and poor thermal insulation, with a 0.5 mm grain size. Composed of stabilized potassium silicate and lightened with perlite granules and hollow glass microspheres for improved workability. Applied with SiPRIME as an adhesion and bonding primer between the ISOBELL membrane and SiNERGY.





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MADE IN ITALY