

ISOBELL

LIVE YOUR COMFORT

INSULATING MEMBRANE

MOISTURE CONTROL AND THERMAL BALANCE

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ISOBELL®

Single-layer insulating membrane for moisture control and balance thermal

Breathable, insulating wall coating for reduce heat loss and protect the masonry.

ISOBELL®: Thin. Breathable. Smart.
The new-generation coating against mould and condensation, for more efficient buildings.

Manufacturer:
Manifattura del Seveso S.p.A.
Via Vespucci 20, 24046 Osio Sotto (BG), Italy

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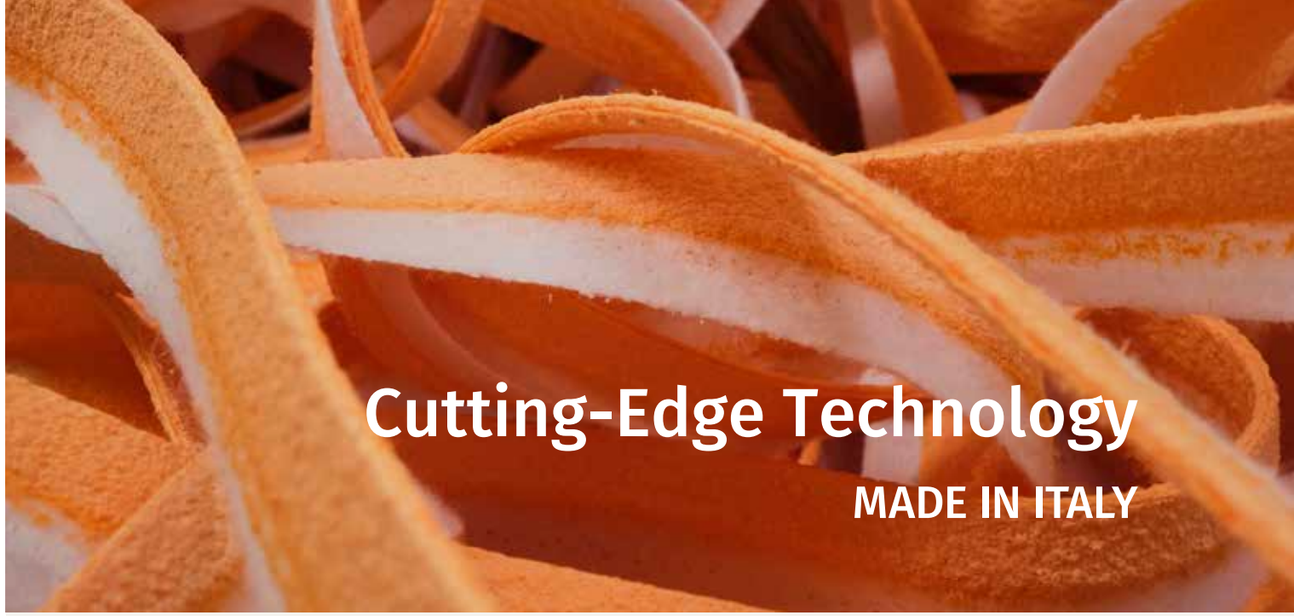


Company

A story spanning four generations.

Manifattura del Seveso S.p.A. is an Italian company with over a century of continuous family leadership, now in its fourth generation of entrepreneurs. Founded in Milan in 1917 as Laboratorio Italiano Impermeabili, the company began as a pioneer in producing waterproof technical fabrics and grew to become a benchmark of Italian excellence in textile innovation.

Rooted in craft tradition and innovation, Manifattura del Seveso has combined art, technology and functionality in many sectors: from fine book covers and collaborations with leading fashion houses through to the development of advanced technical materials. Among its most prestigious partnerships, the company proudly supplies the Italian National Security Department with protective fabrics used in the Italian passport.



Cutting-Edge Technology

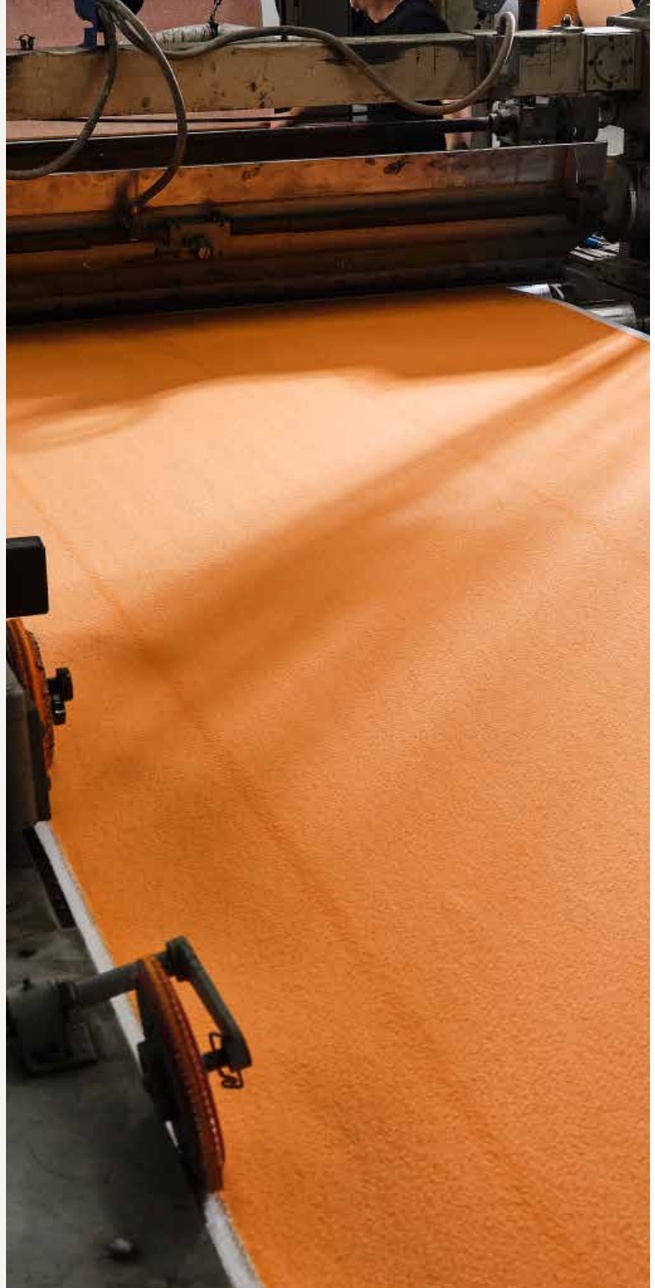
MADE IN ITALY

In 1993 production moved to a new, modern plant in Osio Sotto (Bergamo), strengthening the company's technological and production capabilities. In 2011 a new vision was born: applying textile know-how to the world of construction, turning advanced fabrics into innovative materials for comfortable and durable buildings.

Today, after more than 100 years of challenges, creativity and growth, Manifattura del Seveso continues to innovate, expanding its production site in 2024 and redefining the concept of Made in Italy through high-performance materials that bring value, beauty and comfort to interiors. Manifattura del Seveso is a Certified B Corporation, with ISO 9001 and ISO 14001 management systems.

1.

What is ISOBELL® ?



ISOBELL® is a thin thermo-hygrometric membrane (5 mm ± 10%) designed for the building envelope and for interior and exterior walls, with the aim of improving living comfort, energy efficiency and building durability.

Isobell is also defined as an “insulating vapour control membrane for interiors and exteriors”: in other words, a material that controls vapour (it does not block it completely), reduces heat transfer and helps keep surfaces more stable and drier.

Final technical summary (“key” sentence)

ISOBELL is a continuous thermo-hygrometric membrane that evens out thermal bridges, reduces energy losses and protects the masonry, keeping the hygrothermal balance of the wall; where moisture and salts are present, it limits uncontrolled surface evaporation and reduces salt crystallisation in the plaster, without blocking the transpiration of the masonry.

Payoff / claim: “Live your comfort”.

2.

Who makes it and why is it different?



The patent and production belong to Manifattura del Seveso S.p.A., an Italian company with over a century of history (founded in 1917, now in its fourth generation), which began with waterproof technical fabrics and later grew into a company of excellence in fabric finishing and coating, also for premium sectors and technical applications.

This origin is relevant because Isobell stems from textile-technical know-how applied to construction: its materials and operating logic differ from those of traditional insulation.

Isobell does not come from the world of plasters or solid materials, but from that of functional membranes, designed to manage physical flows (air, vapour, heat) in a controlled way.

3.

How ISOBELL® is made

ISOBELL® consists of:

• carrier in 100% recycled PET nonwoven fabric (GRS);
• water-based acrylic resin coating, solvent-free, with very low emissions: TVOC 39 µg/m³ at 28 days (test report EN 16516, Eurofins).

The material is supplied in rolls, is light and flexible, and is designed for fast, non-invasive installation: cut with a cutter, shape and bond.



4.

Key functions: what does it actually do?



The logic of the Isobell system is to integrate several performance functions in the same thin layer, avoiding the sum of many different materials. It can be described as an engineered material that combines four essential functions in a single layer:

1. Air barrier (airtightness)
Reduces infiltration of cold or warm, humid air, improving internal stability and envelope performance.

2. Vapour control layer (vapour control)
Allows controlled water vapour diffusion, reducing the risk of interstitial condensation and, as a result, mould or detachment of the finishes.

3. Thermal regulator (thermal efficiency)
Reduces heat flow through the wall: 29% less heat loss on a 30 cm plastered concrete wall (U from 2.99 to 2.12 W/m²K, UNI EN ISO 6946). Savings on building services depend on the building, climate and system.

4. Low-emissivity surface (radiant effect)
Emissivity ε = 0.70 (CertiMaC report).



5.

How it works on real problem:

mould, condensation, thermal bridges, salts?



5.1

Mould and condensation: why do they appear?

In many cases mould appears when:

- the internal surface is cold (thermal bridge or poorly insulated wall);
- indoor air moisture condenses on that surface;
- over time an environment favourable to biological growth develops.

Isobell acts on this process in two main ways:

- raising the internal surface temperature (plus 3.3 °C on a 30 cm concrete wall, with −5 °C outside);
- managing vapour and moisture exchange, so that surface condensation is reduced.

A recurring concept in materials is “ **shift of the dew point”:** put simply, condensation no longer forms on the inner face of the wall (where it causes mould and stains) because the surface becomes warmer and vapour diffusion is more balanced.

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5.2

Thermal protection of masonry of evening out of thermal bridges

One of the core features of the ISOBELL system is its ability to even out the thermal behaviour of surfaces, reducing the localised effects of thermal bridges.

Thermal bridges create a discontinuity in surface temperature, with surfaces colder than the rest of the wall, which become critical points for condensation, mould and energy losses.

Thanks to its surface continuity, uniform thickness and low thermal conductivity (λ = 0.036 W/m·K), ISOBELL:

• reduces temperature differences between “weak” and “strong” areas of the wall;
• evens out the internal surface temperature;
• mitigates the intensity of linear and point thermal bridges.

The result is not only an energy improvement, but above all better living comfort, an increase in radiant surface temperature and a reduction of the conditions favourable to condensation and mould. The thermal function of Isobell is not limited to perceived comfort:

• the membrane acts as a continuous thermal protection layer;
• reduces heat loss through the masonry;

• limits surface temperature swings that accelerate the deterioration of materials.

This effect is particularly important in existing masonry, often characterised by:
• heterogeneous materials;
• construction discontinuities;
• build-ups not designed for modern comfort.

Isobell therefore helps stabilise the thermal behaviour of the wall over time, improving its durability.



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5.3

Moisture and salts: why does the wall deteriorate?

When water (from leaks, moisture or rising damp) passes through masonry, it can carry soluble salts which, crystallising on the surface or in the first layer of plaster, cause efflorescence, detachment and deterioration.

A key property of Isobell is worth highlighting: it is impermeable to liquid water but permeable to vapour.
This means that:
• hinders the penetration of non-pressurised water and capillary diffusion;
• lets the wall “breathe” through controlled vapour transfer;
• helps preserve plaster and substrates.

Where rising damp and salts are present, its role is to maintain the balance hygrothermal balance of the wall.

It works through a mechanism by which evaporation is shifted towards the inside of the wall, avoiding rapid, superficial drying.

In this way:
• salts are kept in solution;
• crystallisation is reduced;
• deterioration of plaster and finishes is limited.

When the problem is linked to moisture and mould, the ISOBELL system is recommended: it is an application package that keeps the hygrometric level of the wall in balance, allows water to evaporate as vapour and preserves the existing plaster.



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5.3.1

Rising damp and salts: hygrothermal function

NOTE: ISOBELL® is not a system for blocking capillary rise and is not intended to force-dry the masonry.

In masonry affected by rising damp:
• water carries soluble salts;
• rapid surface evaporation leads to salt crystallisation;
• crystallisation creates pressures that cause detachment, flaking and deterioration.

The system acts in a controlled way, limiting evaporation surface.
ISOBELL® in fact limits rapid, uncontrolled drying, avoiding peaks of evaporation on the internal surface. This behaviour reduces the migration of salts towards the finishing layer. This mechanism reduces crystallisation of salts in the plaster and the resulting deterioration of the finish.

Breathability maintained

Thanks to the μ factor = 33 and Sd = 0.17 m, the membrane does not seal the masonry; it allows controlled vapour diffusion and supports the wall towards a hygrothermal balance that remains stable over time.

Mechanical and functional protection of masonry

Its impermeability to liquid water protects the surface layer and limits the ingress of further moisture, preserving plaster and substrates from progressive deterioration.

The thermal function of the membrane also plays a direct role in moisture control:

• a thermally warmer wall reduces the likelihood of condensation;
• reducing thermal bridges limits cold areas and limits evaporation;
• the masonry works in more stable conditions.



6.

Performance technical: values and meaning



6.1

Main parameters

PROPERTIES	Standard / Method	Value	Performance
Conductivity λD	EN 12667	0,036 W/m·K	Reduces heat flow through the wall
μ factor	EN ISO 12572	33	Controlled vapour diffusion
Air layer thickness Sd	EN ISO 12572	0,17 m	Breathable yet vapour-regulating
Air permeability	EN 12114	0,16 $m^3/(m^2 \cdot h \cdot 50\ Pa)$	Excellent airtightness
Temperature range service	Internal tests	–40 °C / +80 °C	
Reaction to fire	EN 13501-1	E	Euroclass E
VOC emissions (TVOC, 28 days)	ISO 16000 / EN 16516	39 $\mu g/m^3$	Low emissions
Thickness	—	5 mm ± 10%	Single-layer, stable mechanically and thermally
Colour	—	Orange / White	

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6.1

Declared measurable benefits

Some measurable benefits:

- reduced heat loss (29% less on a 30 cm concrete wall);
- increased internal surface temperature (plus 3.3 °C on the same wall, with −5 °C outside);
- reduced condensation and mould through moisture control and a more uniform surface temperature.

Measured performance (test reports)

CATEGORY	Report / Institute	Result	Technical relevance
Airtightness	Istituto Giordano (UNI EN 12114)	0,16 m³/(m²·h·50Pa)	Istituto Giordano
Thermal conductivity	CMR LAB (EN 12667)	λD = 0,036 W/m·K	High insulating efficiency
Water vapour transmission	CMR LAB (EN ISO 12572)	μ = 33, Sd = 0,17 m	Balanced vapour diffusion
Thermal emissivity	CertiMaC (ASTM C1371)	ε = 0,70	
Sound absorption	Istituto Giordano (ISO 354)	αw = 0,10	Value not sufficient for acoustic claims
VOC / Air quality indoor air quality (IAQ)	Eurofins (EN 16516)	TVOC 39 µg/m³	Can contribute to LEED and BREEAM materials credits

7.

Where it is used: fields of application

ISOBELL® is designed for interior and exterior applications, including solutions under plaster, paints and coating systems.

Recommended fields of application:

- interior walls (plaster, plasterboard) in homes, schools, hospitals;
- external envelope (masonry, ETICS) for residential and commercial buildings;
- ceilings and roofs as a hygrothermal barrier under the insulation;
- remediation and restoration, including historic buildings and basements.

Application	Function	Example of use
Interior walls (plasterboard, plaster)	Hygrothermal regulator and insulating layer	Apartments, schools, hospitals
External building envelope (masonry, ETICS)	Waterproof thermal control membrane	Villas, mixed-use buildings, hotels
Ceilings / roofs	Hygrothermal barrier under the insulation	Flat or pitched roofs
Remediation and restoration	Dry restoration of damp or deteriorated walls	Historic buildings, basements

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7.1

Interior walls and external building envelopes

By integrating ISOBELL into building envelopes, designers can improve the comfort and energy efficiency of structures, with measured, verifiable data.


INTERIORS


EXTERIORS


FAÇADES


CEILINGS


WALLS


FLOORS

8.

Cracked external walls and restoration existing ETICS

Restoration of cracked façades

Façade cracks, classified according to EN 1062-7, can result from structural movement, thermal expansion, plaster shrinkage or deterioration of old insulation systems. ISOBELL® helps limit these phenomena, combining technical performance with aesthetic restoration.

Elastic behaviour and pull-off strength

The ISOBELL® membrane, thanks to its recycled polyester structure and polymer coating, offers high tensile strength (2.9 N/mm²) and pull-off strength (30 N/cm²). This strength distributes surface micro-stresses, limiting the formation and spread of hairline cracks.

Thanks to its low thermal conductivity (λD = 0.036 W/m·K), ISOBELL® reduces surface temperature swings and the resulting expansion/contraction of substrates, one of the main causes of class A and B cracks according to EN 1062-7.

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Restoration of old ETICS

ISOBELL can be installed directly over existing deteriorated ETICS, without demolition, mechanical fixings or removal. This improves the continuity of the insulation and the appearance of the façade.

The increase in surface temperature and the reduction of temperature differences between insulated and uninsulated areas help reduce localised stress points and the risk of cracks from thermal shock.

The membrane is breathable (Sd = 0.17 m) but impermeable to liquid water and, thanks to its intrinsic stability, requires no reinforcing mesh. This allows uniform finishes to be applied, restoring the original appearance of the façade.

9.

System cycles: ISOBELL® is not the sheet only

ISOBELL® is the core of the system, but correct application requires integration with dedicated primers, fixatives and adhesive skim coats, chosen according to the problem to be solved.

Substrate preparation is common to many cycles and includes:
- cleaning and removal of loose parts;
- mould treatment with PURE+ where required;
- salt treatment with CRYSTAL when necessary;
- application of BINDER primer/fixative.

The application cycles include:
- thermal cycle for cold walls;
- cycle for damp walls and salt management;
- cycle for external façades and hairline cracks.

9.1

SiNERGY CYCLE
THERMAL MINERAL HYBRID ADHESIVE

INTERIOR | EXTERIOR

DAMP | MOULD | THERMAL BRIDGES

Ready-to-use solutions

Designed to protect all masonry, new or renovated: reduces the water absorption of the surface, keeps the wall breathable and adds thermal protection thanks to glass microspheres and perlite.

SUBSTRATE PREPARATION

Clean the deteriorated surface thoroughly, removing dust, mud, mould and moisture-related impurities. To remove mould, use PURE+ (follow the technical data sheet and label). Before
applying the adhesive, brush on a consolidating, breathable fixative such as our **BINDER** (see technical data sheet). If surface salts are present, remove them and apply the anti-salt product
CRYSTAL (following the instructions for use).



ADHESIVE AND SKIM COAT

Once the base is dry (up to 8 hours), apply ready-to-use **SiNERGY** adhesive. Immediately proceed with installing the waterproof, breathable membrane
ISOBELL® , previously cut and shaped. Spread the membrane and level the joints with the same adhesive. Indicative consumption is one pail of product for bonding and one pail for skimming per 7 m².





BONDING PRIMER

Before skimming, apply by roller the **SiPRIME** bonding primer, specially formulated to ensure even application of the **SiNERGY** skim coat. Check that the membrane is fully adhered and stable and wait for the primer to dry completely. Then level the surface with **SiNERGY,** applying at least one coat approx. 1 mm thick. If several coats are applied, let each layer dry completely before applying the next.



FINISH

For smooth finishes, once the **SiNERGY** levelling coat is dry, use our **SKIM** smooth finishes. Finishing with breathable paints or coatings is recommended
(anti-condensation or silicate-based paints are preferable).



9.2

BUILDING ENVELOPE CYCLE
PROTECTION OF FAÇADES AND ETICS

EXTERIOR

CRACKS | HAIRLINE CRACKS | MOULD

THERMAL BRIDGES | INSULATION

Ready-to-use solutions

System for external façades that helps protect and preserve walls. It is applied with **STUCCO,** a paste adhesive/skim coat ideal for treating cracked masonry exposed to adverse weather, highly elastic and with dynamic properties maintained over time.

SUBSTRATE PREPARATION

Clean the deteriorated surface thoroughly, removing dust, mud, mould and moisture-related impurities. To remove mould, use PURE+ (follow the technical data sheet and label). Before
applying the adhesive, brush on a consolidating, breathable fixative such as our **BINDER** (see technical data sheet). If surface salts are present, remove them and apply the anti-salt product
CRYSTAL (following the instructions for use).



ADHESIVE AND SKIM COAT

Once the base is dry (up to 8 hours), apply ready-to-use **STUCCO** adhesive. Immediately proceed with installing the waterproof, breathable membrane
ISOBELL® , previously cut and shaped. Once the base is dry, level with **STUCCO,** applying at least one coat approx. 1 mm thick. If several coats are applied, let each layer dry completely before applying the next. Expected consumption is one pail of product for bonding and one pail for skimming per 7 m².





FINISH

For protective finishes, once the levelling coat
STUCCO is dry, finishing with paints or
breathable coatings, **(ACRYLIC-SILOXANE based paints are preferable).**

10.

How to install:

simple, fast sequence and high-performing

Installation is a procedure that includes:

wall preparation, choice of tools, measuring and cutting the roll, moistening if needed, application
of primers and waiting for drying,
application of the adhesive with a notched trowel, laying of the sheet, pressing to remove bubbles, joints without overlaps, filling of joints, drying and subsequent skimming and finishing.
ISOBELL®, being supplied in rolls and applied by bonding, allows fast,
non-invasive installation, without major masonry work and without mechanical fixings.



1 Prepare the wall by removing any mould and deteriorated parts



2 Select the tools needed for application.



3 Measure and cut the roll as required



4 Moisten the roll by spraying water



5 Use **Binder** fixative primer to prepare the wall



6 Apply Binder to the wall and leave it to dry for a minimum of 8 hours



7 Choose the types of adhesive and skim coat from the products Recommended Isobell



8 Mix the adhesive and skim coat from the Isobell range recommended



9 Apply the adhesive to the wall with a trowel notched



10 Use the notched trowel to help adhesion of the membrane



11 Spread and position the Isobell sheet



12 Press to remove air bubbles



13 Lay the Isobell sheets side by side, avoiding any overlaps



14 Fill the joints between the Isobell sheets. (**Roll on the Siprime primer). Leave to dry for at least **24** hours



15 Apply the further skim coats (recommended at least 2 coats) of finish.



16 The wall after applying the 2 skim coats

11.

Recommendations and limits

Before application, any active water or leaks must be eliminated; otherwise, any defects cannot be attributed to the system.
The substrate must be cohesive and correctly prepared; applications must take place avoiding high relative humidity and ensuring adequate ventilation.

Finishes must be breathable; avoid incompatible or film-forming products.

ISOBELL® is a system for severe conditions, with durability assessed for at least 50 years (ETA 25/1101).

It is a low-emission material (TVOC 39 µg/m³, EN 16516), with CE marking (ETA 25/1101), compliant with criterion 2.4.7 of the Italian CAM Edilizia, and can contribute to LEED and BREEAM credits (material contribution, not building certification). The product acts on comfort, moisture control and thermal balance.

12.

Why choose ISOBELL®

ISOBELL® stands out for:

- integrated performance in **a thin single layer;**
- **“smart” moisture management** (impermeable to water but permeable to vapour);
- higher surface temperature and greater thermal comfort;
- practical use in renovation thanks to non-invasive installation;
- very low VOC emissions (TVOC 39 µg/m³, EN 16516);
- compliance with the building's geometric tolerances within cadastral requirements;
- work and installation **without building permits;**
- tax-deductible material, eligible under Italian building bonuses;
- **ready-to-use cycles,** intuitive application ;
- defined cycles for cold walls, damp walls and façades;
- contained costs: no demolition, no anchors, fast installation.



13.

Key FAQs

answers to questions

What is the most common mistake when using Isobell?

Consider it:

- a simple “sheet”;
- a thin ETICS;
- a miracle paint.

Isobell only works as part of a correct cycle, with substrate preparation, compatible products and compliant installation.

Does Isobell replace traditional external insulation (ETICS)?

No.

Isobell is not an ETICS and is not designed to replace a high-thickness ETICS system.

It is a thin thermo-hygrometric membrane that acts on comfort, thermal bridges, condensation, mould and surface stability, and is particularly effective:

- in renovation;
- where thickness is limited;
- as a smart addition to existing systems.

Does Isobell really raise the internal surface temperature?

Sì.

On the reference wall (30 cm plastered concrete, -5 °C outside) the internal surface temperature rises by 3.3 °C.

This increase is decisive for:

- reduce the risk of condensation;
- reduce the conditions favourable to mould;
- improve perceived radiant comfort.

Does Isobell “trap” moisture inside the wall?

No.

Isobell is impermeable to liquid water but permeable to vapour.

It does not seal the masonry or trap moisture, but:

• controls vapour diffusion;

• avoids rapid, damaging surface evaporation;

• guides the wall towards a stable hygrothermal balance

Is it suitable for historic or listed buildings?

Yes, subject to appropriate design checks.

Thanks to:

• low thickness;

• reversibility of the work;

• no invasive demolition;

• compatibility with breathable plasters;

Isobell is particularly suited to restoration and remediation work, even in historic settings.

Does it also work in summer?

Sì.

Isobell contributes to summer comfort thanks to:

• reduced incoming heat flows;

• emissivity ε = 0.70;

• greater surface temperature stability.

This helps reduce surface temperature peaks.

Is Isobell effective on structural thermal bridges?

Isobell does not remove a structural thermal bridge, but:

• significantly mitigates its surface effects;

• evens out the internal temperature;

• reduces the local differences responsible for condensation and mould.

It is correct to speak of “evening out thermal bridges”, not of cancelling them geometrically.

Can it be applied on plasterboard?

Sì.

Isobell is compatible with:

• plasterboard;

• dry systems;

• lining walls;

provided the substrate is stable, cohesive and correctly primed according to the cycle.

Is mechanical fixing always needed?

No.

Isobell is bonded, without mechanical fixings.

This reduces:

• installation times;

• dust;

• invasive work on the substrate.

What type of finish can be applied over Isobell?

Breathable finishes are recommended, such as:

• lime-based mineral skim coats;

• silicate, siloxane or lime paints;

• compatible cycles indicated in the Manual.

Avoid:

• film-forming paints;

• non-breathable plastic coatings;

• products not compatible with vapour diffusion.

Is Isobell suitable for occupied spaces?

Sì.

Thanks to:

• very low VOC emissions (TVOC 39 µg/m³, EN 16516);

• no solvents;

• water-based resin.

By reducing surface condensation, Isobell also reduces the conditions favourable to mould and biological growth.



Is it compatible with CAM Edilizia and environmental protocols?

Yes, as a material contribution.

Isobell complies with criterion 2.4.7 of the Italian CAM Edilizia (Ministerial Decree 24/11/2025, verified by Certimac) and can contribute to LEED and BREEAM materials credits, according to the designer's choices. It does not certify the building.

How long does it last?

The system is tested for:

- freeze-thaw cycles;
- high temperatures;
- UV exposure (in exterior cycles);

with durability assessed for at least 50 years (ETA 25/1101), if applied correctly according to the Manual.

Is Isobell a “miracle” solution for all moisture problems?

No.

Isobell:

• does not block capillary rise;

• does not force-dry the masonry;

• does not replace structural remediation.

It is a technical control and stabilisation solution, to be used correctly within a system.

When is Isobell NOT suitable?

Isobell must not be applied:

• where active water or unresolved leaks are present;

• on unprepared loose or deteriorated substrates;

• with non-breathable finishes;

• without following the system application cycles.

14.

Conclusion

ISOBELL® stands out as a single-layer thermo-hygrometric membrane in rolls, thin and breathable, combining air control, vapour control, thermal performance and radiant thermal control to increase comfort, reduce the risk of condensation and mould and improve the durability of the envelope.

It evens out thermal bridges by raising the surface temperature and, on damp, salt-laden walls, maintains the hygrothermal balance, limits uncontrolled evaporation and reduces salt crystallisation and plaster deterioration.

15.

CATALOGUE PRODUCTS

ISOBELL THERMAL MEMBRANE

ADHESIVES AND SKIM COATS FOR APPLICATION CYCLES

PRIMERS AND SURFACE TREATMENTS



Membrane

ISOBELL



Isobell consists of a 100% recycled PET nonwoven fabric coated with water-based acrylic resin. TVOC 39 µg/m³ at 28 days (EN 16516).

PROPERTIES

Thermal conductivity (W/mK)	0,036
Emissivity	0,70
Density (kg/m3)	140
Reaction to fire	class E
Thickness (mm)	5 ± 10%
Service temperature (°C)	- 40/+80
Water vapour transmission Sd (m)	0,17
Tensile strength (N/mm2)	2,9
“Pull-off” strength (N/cm2)	30

Values are obtained from standardised tests carried out by external laboratories (CMR LAB, Istituto Giordano, CertiMaC, Eurofins).

7.5x0.95 m pack - 7.125 m2 **385.00 euro**

*54.03 euro/m2

Adhesive skim coat - SINGLE SYSTEM

SiNERGY



Based on potassium silicate and hollow glass microspheres, it ensures high chemical adhesion to the substrate, an anti-condensation effect and excellent breathability. The mineral “silicifying” formulation penetrates the pores of the wall, creating a stable bond. The alkaline formulation (pH 9-10) makes the surface unfavourable to mould growth; ideal for restoring deteriorated masonry.

PRODUCT DESCRIPTION

Mineral adhesive and skim coat, ready-to-use paste, specific to the ISOBELL® system, suitable indoors and outdoors on walls with condensation, mould and the effects of rising damp.

COMPOSITION

Stabilised potassium silicate, perlite, siliceous aggregates and quartz sand with controlled grain size (0.5 mm), synthetic resin in aqueous emulsion with adhesion promoters and hollow glass microspheres (3M). Specific additives ensure vapour permeability and water repellency.

15 kg pack | coverage 3.5 m2 **99.00 euro**

*6.60 euro/kg

Bonding primer

SiPRIME



PRODUCT DESCRIPTION

Breathable, washable siloxane-modified silicate base coat and primer, for interior and exterior use.

Water-based filling wall undercoat with siloxane-modified silicates, washable yet breathable, for interiors and exteriors, with good coverage and weather resistance. Evens out the surface with a plaster effect.

Designed as a specific base coat for the ISOBELL membrane, it evens out the substrate and ensures excellent adhesion, making the finishes easier to apply. The product is ideal for interior use where deteriorated walls are to be restored.

COMPOSITION

Stabilised potassium silicate, special pigments, special inorganic fillers, various additives dispersed in acrylic resin in aqueous emulsion, silicone additives.

6x1 l pack | coverage 42 m2	**81.00 euro**	
	*13.50 euro/l	
4 l pack | coverage 14 m2	**40.00 euro**	
	*10.00 euro/l	

Fine skim coat - SMOOTH FINISH

SKIM



PRODUCT DESCRIPTION

Fine skim finish, 0.2 mm grain, mineral ready-to-use paste, ideal for the ISOBELL® system, suitable for interior and exterior applications in restoring walls affected by rising damp, mould and condensation.

Based on potassium silicate, it ensures deep chemical adhesion to the substrate, forming a stable silicifying bond. Its high breathability makes it suitable for restoring masonry and façades, even in poor condition; particularly suited to interiors.

Can be applied on all types of plaster (except gypsum-based finishes) as well as on surfaces of all types of building elements such as concrete, cement mortars, precast, lightweight prestressed elements, wood, masonite, hardboard and similar structures.

COMPOSITION

Stabilised potassium silicate, lightened with perlite, siliceous aggregates and quartz sand with controlled grain size.
Specific additives ensure compliance with the main physical parameters, such as vapour permeability and water repellency.

10 kg pack | coverage 7.5 m2	**48.00 euro**	
	*4.80 euro/kg	

Adhesive skim coat - **ANTI-CONDENSATION CYCLE**

KLIMA



Thanks to perlite and aggregates of controlled grain size, it offers good breathability, making it ideal for treating cold walls prone to condensation and mould. In the ISOBELL cycle it helps raise the surface temperature of the masonry, reducing surface moisture and improving thermal comfort; also suitable for restoring deteriorated walls.

PRODUCT DESCRIPTION

Adhesive and skim finish, ready-to-use acrylic paste, 0.5 mm grain, specifically formulated for the ISOBELL® system in interior applications.

COMPOSITION

Synthetic resin in aqueous emulsion with adhesion promoters, aggregates with a controlled grading curve and perlite. Specific additives ensure adequate physical parameters of vapour permeability and water repellency.

15 kg pack | coverage 3.5 m2 **78.00 euro**

*4.58 euro/kg

Adhesive skim coat - **EXTERNAL ENVELOPE CYCLE**

STUCCO



Forms a highly elastic system whose dynamic properties are maintained over time.
Can be applied on all types of plaster as well as on surfaces of all types of building elements such as concrete, cement mortars, precast elements.
Specially formulated for levelling and coating exterior building surfaces of various kinds, for the thermo-hygrometric correction of external façades.
The product is ideal for exterior use where deteriorated walls are to be restored.

PRODUCT DESCRIPTION

Adhesive and skim finish made of acrylic resins, a ready-to-use paste, 1 mm grain, ideal for the ISOBELL® protection system. Ideal for treating cracked masonry exposed to adverse weather.

COMPOSITION

Synthetic resin in aqueous emulsion with adhesion promoters, aggregates with a controlled grading curve, lightened with perlite. Contains various additives in concentrations ensuring compliance with physical parameters such as permeability and water repellency.

15 kg pack | coverage 3.5 m2 **78.00 euro**

*5.20 euro/kg

Adhesive skim coat - **EXTERNAL ENVELOPE CYCLE**

COMFORT LIME LIGHT



Ensures excellent adhesion, high workability and adequate pot life, making installation easier for a reliable system. Its high breathability promotes moisture diffusion through the plaster, and it is suited to the thermo-hygrometric regulation of interior and exterior surfaces, including deteriorated masonry, thermal bridges and façades. Ideal for restoration work indoors.

PRODUCT DESCRIPTION

Lightweight adhesive and skim finish based on hydraulic lime, specifically optimised for bonding and skimming the ISOBELL® system.

COMPOSITION

One-component adhesive-skim coat based on hydraulic lime, with flexible polymers, rheological additives and water retainers, pozzolanic microsilicates and low-density spherical aggregates. Suitable for levelling skim coats on various substrates, light bonding and as skim coat/adhesive for the ISOBELL® membrane on damp, cracked masonry or masonry with thermal bridges.

20 kg pack | coverage 4 m2 **38.00 euro**

*1.90 euro/kg

Paint - **INTERIORS**

SiPAINT



The thermal expansion of the applied film is identical to that of the substrate and, thanks to its high breathability, it offers a good anti-condensation function; the alkaline environment of the surface (pH 9-10) is unfavourable to mould growth.

PRODUCT DESCRIPTION

Active-protection mineral paint for interiors with potassium silicates and high diffusion capacity. Glass microspheres increase the anti-condensation effect.

Product packaged in accordance with DIN N. 18363 2.4.6.

WET ABRASION RESISTANCE:
category 3 according to en 13300

HIDING POWER:
class 1 according to en 13300

COLOUR:
white

5 L pack | coverage 20-25 m2 **109.00 euro**

*21.8 euro/L

ISOBELL
LIVE YOUR COMFORT

Cleaner

PURE+



Professional cleaner for wall surfaces with mould, algae and fungi. Use biocides safely. Always read the label and product information before use.

6x1 l pack | coverage 60 m2 **108.00 euro**

*18.00 euro/l

Anti-salt treatment

CRYSTAL



Transparent anti-salt treatment based on a silane-siloxane resin emulsion, for treating damp walls, against efflorescence and for deep consolidation of the substrate. Used where salts are present on the surface, to reduce efflorescence caused by rising damp.

6x1 l pack | coverage 60 m2 **132.00 euro**

*22.00 euro/l

Fixative primer

BINDER



Consolidating fixative primer for the water-repellent and silicifying treatment of mineral substrates such as stone, masonry, concrete, old and new plaster. Used as an insulating and anchoring sealer that penetrates deep into masonry, consolidating the surface while reducing absorption and salt concentration.

6x1 l pack | coverage 60 m2 **60.00 euro**

*10.00 euro/l



16.

ISOBELL READY-TO-USE SOLUTIONS

INTERIOR | EXTERIOR

SiNERGY CYCLE

THERMAL MINERAL HYBRID ADHESIVE

Designed to protect all masonry, new or renovated: reduces the water absorption of the surface, keeps the wall breathable and adds thermal protection thanks to glass microspheres and perlite.

SUBSTRATE PREPARATION

Clean the deteriorated surface thoroughly, removing dust, mud, mould and moisture-related impurities.
To remove mould, use PURE+ (follow the technical data sheet and label). Before
applying the adhesive, apply a consolidating, breathable fixative primer such as our BINDER by brush (see technical data sheet). If surface salts are present, remove them and apply CRYSTAL anti-salt treatment (following the instructions for use).



ADHESIVE AND SKIM COAT

Once the base is dry (up to 8 hours), apply ready-to-use SiNERGY adhesive. Immediately install the waterproof, breathable ISOBELL membrane, previously cut and shaped. Spread the membrane and level the joints with the same adhesive. Indicative consumption is one pail of product for bonding and one pail for skimming per 7 m².





BONDING PRIMER

Before skimming, apply by roller the SiPRIME bonding primer, specially formulated to ensure even application of the SiNERGY skim coat. Check that the membrane is fully adhered and stable and wait for the primer to dry completely. Then level the surface with SiNERGY, applying at least one coat approx. 1 mm thick. If several coats are applied, let each layer dry completely before applying the next.



FINISH

For smooth finishes, once the SiNERGY levelling coat is dry, use our SKIM smooth finishes. Finishing with breathable paints or coatings is recommended (anti-condensation or silicate-based paints are preferable).



ISOBELL READY-TO-USE SOLUTIONS

INTERIOR

ANTI-CONDENSATION CYCLE
ACRYLIC ADHESIVE WITH BREATHABLE PERLITE

System for interior walls that contributes to the protection and preservation of walls.
Anti-condensation system that helps prevent condensation and mould.

DO NOT APPLY ON WALLS WITH RISING DAMP

SUBSTRATE PREPARATION

Clean the deteriorated surface thoroughly, removing dust, mud, mould and moisture-related impurities. To remove mould, use PURE+ (follow the technical data sheet and label). Before applying the adhesive, apply a consolidating, breathable fixative primer such as our BINDER by brush (see technical data sheet). If surface salts are present, remove them and apply CRYSTAL anti-salt treatment (following the instructions for use).



ADHESIVE AND SKIM COAT

Once the base is dry (up to 8 hours), apply ready-to-use KLIMA adhesive. Immediately install the waterproof, breathable ISOBELL membrane, previously cut and shaped. Once the base is dry, level with KLIMA, applying at least one coat approx. 1 mm thick. If several coats are applied, let each layer dry completely before applying the next. Expected consumption is one pail of product for bonding and one pail for skimming per 7 m².





FINISH

For protective finishes, once the KLIMA levelling coat is dry, finishing with breathable paints or coatings is recommended (ANTI-CONDENSATION paints are preferable).

ISOBELL READY-TO-USE SOLUTIONS

EXTERIOR

FAÇADE CYCLE
WITH HAIRLINE CRACKS

System for external façades that contributes to the protection and preservation of walls. It is applied with Stucco, an adhesive/skim coat paste ideal for treating cracked masonry exposed to adverse weather, highly elastic and with dynamic properties maintained over time.

SUBSTRATE PREPARATION

Clean the deteriorated surface thoroughly, removing dust, mud, mould and moisture-related impurities. To remove mould, use PURE+ (follow the technical data sheet and label). Before applying the adhesive, apply a consolidating, breathable fixative primer such as our BINDER by brush (see technical data sheet). If surface salts are present, remove them and apply CRYSTAL anti-salt treatment (following the instructions for use).



ADHESIVE AND SKIM COAT

Once the base is dry (up to 8 hours), apply ready-to-use STUCCO adhesive.
Immediately install the waterproof, breathable ISOBELL membrane, previously cut and shaped. Once the base is dry, level with STUCCO, applying at least one coat approx. 1 mm thick. If several coats are applied, let each layer dry completely before applying the next. Expected consumption is one pail of product for bonding and one pail for skimming per 7 m².





FINISH

For protective finishes, once the STUCCO levelling coat is dry, finishing with breathable paints or coatings is recommended (ACRYLIC-SILOXANE based paints are preferable).

ISOBELL READY-TO-USE SOLUTIONS

INTERIOR | EXTERIOR

CYCLE FOR ALL WALLS

LIME-BASED ADHESIVE (POWDER)

Designed to protect all masonry, new or renovated: reduces the water absorption of the surface and keeps the wall breathable.

SUBSTRATE PREPARATION

Clean the deteriorated surface thoroughly, removing dust, mud, mould and moisture-related impurities. To remove mould, use PURE+ (follow the label and technical data sheet). Before applying the adhesive, apply a consolidating, breathable fixative primer such as our BINDER by brush (see technical data sheet). If surface salts are present, remove them and apply CRYSTAL anti-salt treatment (following the instructions for use).



ADHESIVE AND SKIM COAT

Once the base is dry (up to 8 hours), apply COMFORT LIME LIGHT adhesive, mixed with water before use. Immediately install the waterproof, breathable ISOBELL membrane, previously cut and shaped. Once the base is dry, level with COMFORT LIME LIGHT, applying at least one coat and letting each coat dry before the next. Expected consumption for bonding and skimming is approx. 5 kg/m² (one 20 kg bag per 4 m²).



FINISH

For smooth finishes, once the COMFORT LIME LIGHT levelling coat is dry, finishing with breathable paints or coatings is recommended (lime- or silicate-based paints are preferable).

17.

GENERAL TIPS AND RECOMMENDATIONS FOR APPLYING ISOBELL® CYCLES

BASE PREPARATION

Before starting any work cycle, any leaks or presence of water must be stopped. This is crucial, as the success of the subsequent work depends on it. Remember that if this step is not carried out correctly, any detachment and/or defect in the wall cannot be attributed to the new system applied. Before preparing the base, proceed with:

• Check the cohesion and adhesion of existing plaster and paints by tapping, and remove all loose parts. Small areas can be repaired with the same adhesive supplied with the corrective cycle. For larger areas and significant detachment, repair with a mineral-based mortar, preferably based on hydraulic lime.

• To fix the base, use primers suited to each applied cycle.

Clean the deteriorated surface thoroughly, removing dust, mud, mould and moisture-related impurities. To remove mould, use PURE+ (follow the technical data sheet and label). Before applying the adhesive, apply a consolidating, breathable fixative primer such as our BINDER by brush (see technical data sheet). If surface salts are present, remove them and apply CRYSTAL anti-salt treatment (following the instructions for use).

SURFACE FINISHES

Once the surface is dry and hard, which often depends on weather conditions and applied thickness, after 1 to 7 days the finish can be applied using only breathable mineral (silicate) interior paints, or exterior renders, preferably acrylic-siloxane based. Do not use products incompatible with the nature of the system, such as gypsum- or cement-based products, or non-breathable products. Do not apply in particularly damp rooms, where water is present or with relative humidity above 80%, as the binder may be neutralised, compromising the effectiveness of the system.

WARNINGS

• Silicification of SiNERGY | SKIM takes place over 21 days under optimal conditions (23°C; R.H. max. 60%). Apply the product in favourable weather conditions as indicated above. In particular, application at extreme temperatures (< 8 °C and > 30 °C) adversely affects silicification.

• Given the high alkalinity of SiNERGY | SKIM, carefully cover all surfaces adjacent to the one to be painted, especially glass, ceramics, bricks, etc., to avoid damage.

• Through the physical process of water evaporation, under normal conditions SINERGY| KLIMA| SKIM | STUCCO dries completely in about 14 days. 1-2% water can be added to the mix if the product is too viscous.

• Do not apply in rain, threat of rain, on façades in direct sun (use sheeting on scaffolding) or in strong wind.
• Do not apply with relative humidity above 80%.
• Do not apply on wet or damp substrates with a concentration above 60%
• Do not apply on substrates treated with non-breathable paints or synthetic coatings, or on weak, powdery substrates.
• Application on low-absorbency substrates (osmotic cements, gypsum etc) is not recommended
• Do not apply on frozen or thawing substrates.
• The use of skilled labour is recommended.
• Use as supplied, without adding foreign materials.
• Only breathable finishes and paints are recommended.

GENERAL RECOMMENDATIONS

Unless specified in this technical report, for the method of use, dilutions and consumption of all the products listed, as well as any technical and construction details, please refer to the updated technical data sheets available on our website www.isobell.it in the download area. Avoid application in the presence of surface condensation or direct sunlight. To ensure optimal technical and performance properties of the product, apply it in suitable weather conditions and protect surfaces from rain and moisture. This ensures complete drying of the product and a regular chemical action, which takes approx. 15/21 days. During this period, surfaces exposed to rainwater may need longer drying times. This does not affect product performance. Should the prescribed instructions need to be changed, you must contact our Technical Support service and carry out an inspection during site set-up.

MANIFATTURA DEL SEVESO SPA - ISOBELL accepts no liability for any future defects (direct or indirect) not attributable to the products applied, such as microcracking, detachment or deterioration, or other problems linked to improper application.

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The contents of this sheet may be reproduced in another design document, but the resulting document may in no way replace or supplement the Technical Data Sheet in force at the time the ISOBELL product is applied.
Updated technical data sheets are available on our website www.isobell.it.

ANY ALTERATION OF THE TEXT OR CONDITIONS IN THIS TECHNICAL DATA SHEET OR ARISING FROM IT EXCLUDES THE LIABILITY OF MANIFATTURA DEL SEVESO.

ISOBELL®,
BETWEEN INNOVATION AND TRADITION

Isobell stems from the century-long textile experience of Manifattura del Seveso, a leading company in fabric finishing and one of the main producers of special cloths for bookbinding, paper converting and luxury packaging.

Manifattura del Seveso is a Certified B Corporation, has ISO 9001 and ISO 14001 certified management systems (Bureau Veritas) and holds FSC® chain of custody certification (licence FSC C047310) for paper and cellulose products.

VISION

Designing and producing the best solutions for the remediation and upgrading of indoor spaces, usable in every home, and that increase the value of those who live in them. Making them comfortable and protected from cold, mould and moisture, with technical solutions that are always up to date.

MISSION

Every day, in every home, with our products we protect from heat and cold, mould and moisture.

We do it with the passion that drives us and the awareness that everyday comfort is our sole aim.












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