



ISOBELL SiNERGY

Adhesive and mineral skim coat based on potassium silicate, perlite, and glass microspheres

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PRODUCT DESCRIPTION

Adhesive and ready-to-use mineral skim coat ideal for the ISOBELL® protection system against rising damp, mold, and condensation, for both interior and exterior use.

Hybrid mineral compound based on potassium silicate and glass microspheres, designed for levelling and restoring walls in poor condition.

Innovative product with anti-condensation effect, heat-reflective capacity, and high adhesive power, ideal for smoothing and bonding the ISOBELL® membrane, thus extending its insulating performance.

Thanks to the inclusion of hollow glass microspheres and its advanced formulation, it resolves problems of mold, condensation, and thermal bridging.

Due to its mineral nature and chemical adhesion, it revolutionizes the concept of bonding to substrates, penetrating deeply into the wall's pores and reacting with its components to form a unique and indissoluble "silicized" structure.

It promotes the natural diffusion of ambient moisture through the plaster thanks to its excellent breathability.

Specially formulated for regulating and coating building surfaces of various types, both indoors and outdoors, for thermo-hygrometric correction of masonry, interior environments, and exterior façades.

The mold-resistant nature of the product makes it ideal for indoor use where restoration of damaged walls is required.

COMPOSITION

Stabilized potassium silicate, lightened with perlite, containing silica aggregates, quartz sand with controlled grain size 0.5 mm, bound with a synthetic resin in aqueous emulsion with adhesion promoters, lightened with hollow glass microspheres (3M Glass Bubbles).

Contains various additives in quantities sufficient to guarantee physical parameters such as permeability and water repellency.

ENVIRONMENTAL CONDITIONS FOR APPLICATION

Temperature: 8 - 30°C;
Relative humidity: max 70%

Application of the product under unsuitable atmospheric conditions negatively influences drying times, compromising the achievement of optimal aesthetic and performance characteristics.

DILUTION AND pH

pH 9-10 . Ready to use.

COVERAGE

SiNERGY | Grain size 0.5 mm

1.8 - 2.5 kg/m² for bonding with 4-5 mm notched trowel

1.5 - 2 kg/m² for single-coat smoothing

2 - 2.5 kg/m² for double-coat smoothing

Consumption may vary depending on surface irregularity. The yield may vary based on the irregularity of the surfaces to be treated.



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CURING TIME

Deep dry*: 24-72 hours

*for each mm of thickness

(Data referred to 20°C and 65% relative humidity. Drying times depend strictly on humidity and temperature conditions.)

STORAGE AND SHELF LIFE

36 months in original sealed containers stored in a covered environment, protected from direct sunlight at a temperature between +8°C and +35°C. Protect from frost. Exclusion of mixing with other products. Any mixing will alter the characteristics and qualities of the product.

PACK SIZE

SiNERGY: 15 kg

TOOLS

With a steel and plastic trowel. Clean with water immediately after use.

WHERE TO USE

Can be applied to all types of plaster (except gypsum-based finishes) as well as to various building surfaces such as concrete, cement mortars, prefabricated panels, lightweight precompressed elements, wood, masonite, fiberboard, and similar structures.

Metal works must be pre-treated with corrosion-inhibiting products, while aluminum, light alloys, and plastics require a preliminary protective treatment.

For new surfaces, remove dust and treat with BINDER silicate-based primer.

For old surfaces, remove dirt and grease, strip non-adherent synthetic paints, scrape and brush down to sound substrate, then impregnate with BINDER silicate-based consolidating primer.

APPLICATION

Product is ready to use — mix slowly before application without adding water.

Apply directly to solid, cohesive, non-powdering plasters. Otherwise, prepare and consolidate with BINDER silicate primer.

After installing the membrane, apply the finishing skim coat in two layers using a trowel. Then apply a compatible breathable paint or coating.

When used as the sole restoration product for damaged walls, it can be applied as a repair mortar or with a decorative trowel finish.

Maximum thickness per coat: 2 mm. Allow full drying between coats.

When applied as a skim coat or final finish over the ISOBELL® membrane, it is recommended to first apply a SiPRIME primer to level the membrane surface, improve workability, and enable single-coat application.

SPECIFICATION CLAUSE

SiNERGY

The adhesive layer must be applied with a 4-5 mm notched trowel, fully covering the surface for ISOBELL® membrane installation.

After installation and drying, a final smoothing coat with civil plaster effect is applied.

Minimum skim thickness: 1 mm.

Do not apply below +8 °C or above +35 °C, or on frozen substrates.

Finished coating must achieve a water vapor transmission rating of $S_d = 0.05$ m (high permeability, Class V1, UNI EN ISO 7783-3).



WARNINGS

- The silicization process occurs within approx. 21 days under optimal conditions (23 °C, max 60% R.H.).
- Avoid application in extreme temperatures (< 8 °C or > 30 °C).
- Due to the product's high alkalinity, protect adjacent surfaces such as glass, ceramics, and bricks.
- Do not apply in rain, strong wind, or on sun-heated façades.
- Do not use on wet or frozen substrates, gypsum-based plasters, non-breathable coatings, or low-absorption surfaces (e.g., osmotic cement).
- Use only breathable mineral-based finishes (silicate, lime, etc.).
- Employ skilled labor.
- Do not alter the formulation by adding foreign materials.

The information and instructions above, while corresponding to our best experience, are purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone intending to use it must determine whether it is suitable for the intended use and will assume any responsibility that may arise from its use.

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The most updated Technical Data Sheet is available on our website www.isobell.it.

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