

ISOBELL COMFORT LIME

**Single-component mineral adhesive and skim coat
based on hydraulic lime**

TECHNICAL DATA SHEET COMPILATION DATE: 01/06/2025 REV.1

PRODUCT DESCRIPTION

Mineral adhesive and finishing filler, two-component, optimized for the bonding and smoothing of ISOBELL®. Adhesion, workability, and pot life are ideal for easily carrying out bonding and smoothing operations, ensuring the long-term durability of the applied system. It promotes the natural diffusion of ambient humidity through the plaster due to its excellent breathability. Specifically formulated for the adjustment and coating of various types of building surfaces, both internal and external, for the thermo-hygrometric correction of walls, indoor environments, and external facades. The product, resistant to mold, is ideal for interiors where intervention is needed for the restoration of damaged walls.

COMPOSITION

Single-component adhesive and skim coat based on hydraulic lime, special flexible polymers, rheological additives, water retention agents, pozzolanic microsilica, and low-density spherical aggregates. Intended for surface regularization on various substrates, light bonding applications, and as an adhesive/skim coat for our special ISOBELL® membrane (on thermal bridges, damp and/or damaged masonry)..

ENVIRONMENTAL CONDITIONS FOR APPLICATION

Temperature: 5 - 30°C;
Relative humidity: max 80%

POT LIFE

Once mixed, product has a workability duration of approximately 2 hours.

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

DILUTION AND pH

pH 9-10 . Ready to use.

COVERAGE

Grain 0.5 mm
3 - 3.5 kg/m² for adhesion with a 4-5 mm notched trowel;
2 - 2.5 kg/m² for finishing and plastering in two coats.

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

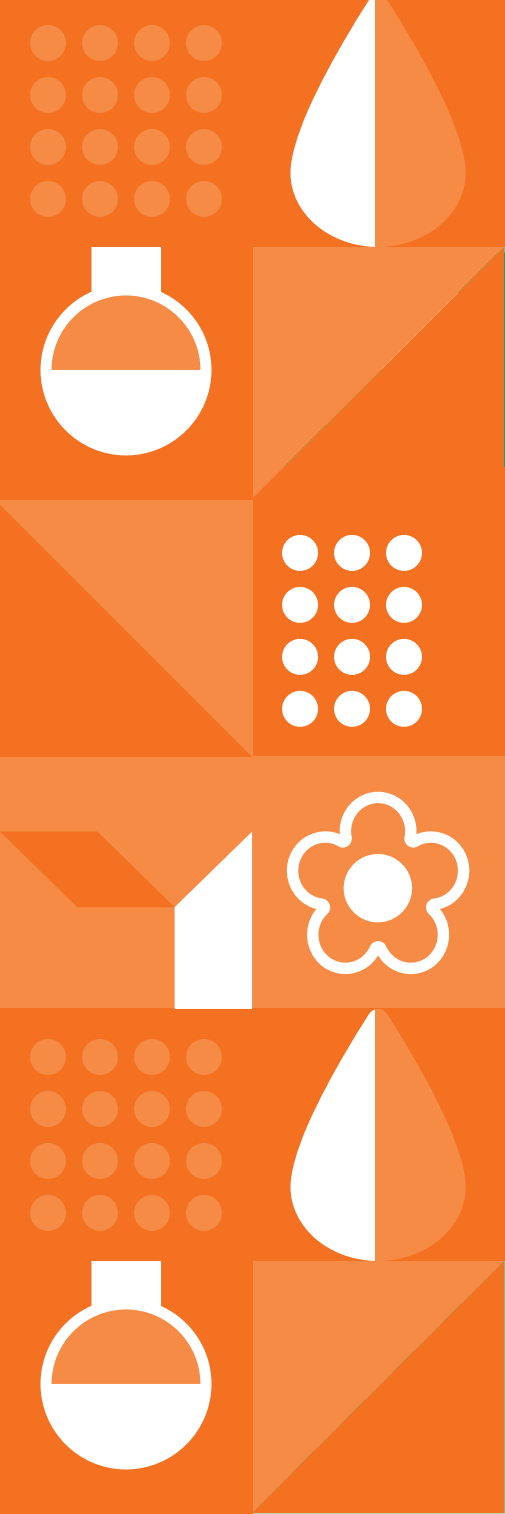
CURING TIME

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

24 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

Component COMFORT LIME 25 kg

TOOLS

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

WHERE TO USE

It can be applied to all types of plaster as well as to the surfaces of any kind of building element, such as concrete, cement mortars, prefabricated components, prestressed lightweight elements, and similar structures. Ideal for both interior and exterior use, especially where the rehabilitation of damaged walls and façades is required. It contributes to improving the building's energy efficiency and indoor comfort thanks to its thermal insulation properties.

For new surfaces, remove any dust and apply a silicate-based primer (BINDER). For old surfaces, remove dirt and grease, eliminate loose or synthetic paint layers, scrape and brush the surface until sound substrate is reached, then proceed with the application of the BINDER silicate-based primer and consolidating treatment.

APPLICATION

Gradually pour about two-thirds of the mixing water into the mixer. Slowly add COMFORT LIME and the remaining water, continuing to mix until all lumps are completely eliminated. The total amount of mixing water should be between 28% and 30% (7 to 7.5 liters per 25 kg bag).

Mix using a drill with a mixing paddle or high-efficiency mixers until a thixotropic, homogeneous, and easily workable mixture is obtained. The product can be applied with a notched metal trowel, flat trowel, or float on both vertical and overhead surfaces.

COMFORT LIME can be applied directly to solid, non-powdering plasters (otherwise, these must first be properly prepared and consolidated using the BINDER silicate-based primer). Specifically formulated for the levelling and coating of various types of interior and exterior building surfaces, as well as for the thermo-hygrometric correction of walls, rooms, etc.

Once the application is complete, proceed with smoothing using a trowel, then finish with a breathable paint or coating.

For surface regularization, it is always recommended to apply two coats, waiting at least 8 hours and no more than 48 hours between the first and second coat. In particularly dry or windy climates, lightly moisten the surfaces between coats. Finish the surface using a steel blade or float, depending on the desired texture. In dry, windy, or very hot conditions, it is advisable to keep the applied COMFORT LIME surface slightly moistened for the first 48 hours with light and repeated water spraying.

Charateristics	Standard	Parametar	Results
Water vapor transmission	EN 1015-19	μ	12
Bulk density	UNI EN 1015-6	kg/m ³	1380
Capillary water absorption W1	EN 1015-18		W1
Thermal conductivity	EN 1745	[W/mK]	< 0.2
Bond strength	UNI EN 1015-12	N/mm ²	0,8
Flexural strength after 28 days	UNI EN 1015-11	N/mm ²	3
Compressive strength after 28 days	UNI EN 1015-11	N/mm ²	5
Tests conducted in certified laboratories			

WARNINGS

- It is recommended to apply the product under favorable climatic conditions as indicated above. In particular, application in extreme temperatures ($< 8^{\circ}\text{C}$ and $> 30^{\circ}\text{C}$) negatively affects the drying process.
- Thanks to the physical evaporation process of water, under normal environmental conditions the product dries completely in approximately 21 days.
- If the mixture is too viscous, 1-2% water may be added.
- Do not apply in case of rain, threat of rain, direct sunlight on façades (use protective netting on scaffolding), or strong wind.
- Do not apply with relative humidity higher than 80%.
- Do not apply on damp or wet substrates with a moisture content above 70%.
- Do not apply on substrates treated with non-breathable paints, synthetic coatings, or on inconsistent and powdery surfaces.
- Do not apply on frozen substrates or during thawing.
- The use of specialized labor is recommended.
- Use as is, without adding foreign materials.
- Only breathable and water-repellent finishes or paints are recommended.

The information and instructions provided above, although based on our best experience, are in any case purely indicative and must be confirmed by thorough practical application tests. Therefore, before using the product, the user must determine whether it is suitable for the intended use and shall in any case assume all responsibility arising from its use.

TECHNICAL SPECIFICATION

COMFORT LIME

Bonding of the ISOBELL® membrane on seasoned, compact, and absorbent substrates by applying the single-component adhesive COMFORT LIME with a notched trowel. The adhesive is based on hydraulic lime, special flexible polymers, moisture retention agents, and pozzolanic microsilica. Before application, the substrate must be properly prepared so as to be clean, free from dirt, loose or incoherent parts, etc.

Consumption:

ISOBELL membrane bonding – approx. 3 kg/m^2

Skim coat over ISOBELL membrane – approx. 2 kg/m^2

Technical features of ISOBELL®:

- EN 1015-11 Compressive strength at 28 days: 5 N/mm^2
- EN 1015-11 Flexural strength at 28 days: 3 N/mm^2
- EN 1015-12 Bond strength: 0.8 N/mm^2
- EN 1015-19 Water vapor permeability: 12
- UNI EN 1015-6 Bulk density: 1380 kg/m^3
- EN 1745 Thermal conductivity (measured value): $< 0.2\text{ W/mK}$
- EN 1015-18 Capillary absorption: class W1

LEGAL NOTICE

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

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