ISOBELL SiNERGY

Mineral adhesive and skim finish based on potassium silicate, perlite and glass microspheres

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PRODUCT DESCRIPTION

Mineral adhesive and skim finish, a ready-to-use paste ideal for the ISOBELL® system against mould and condensation and for protecting plaster from the effects of rising damp, for both interior and exterior use. A hybrid mineral mix with potassium silicate and glass microspheres, ideal for skimming and restoring walls in poor condition. An innovative product with anti-condensation effect and high bonding power, ideal for skimming and bonding the membrane. Thanks to the hollow microspheres and its innovative formulation, in the ISOBELL system it helps reduce mould, condensation and thermal bridges. Its mineral nature with chemical adhesion changes the concept of adhesion to the substrate: it penetrates deep into the pores of the wall, then reacts with its components to form a stable "silicifying" whole. It promotes the diffusion of indoor moisture through the plaster thanks to its excellent breathability. Specially formulated for levelling and coating interior and exterior building surfaces of various kinds, for the thermo-hygrometric correction of masonry, interiors and external façades.

The alkaline formulation (pH 9-10) makes the surface unfavourable to mould growth; ideal for restoring deteriorated walls.

COMPOSITION

Stabilised potassium silicate, lightened with perlite, containing siliceous aggregates and quartz sand with a controlled 0.5 mm grain size, bound by a synthetic resin in aqueous emulsion with adhesion promoters, lightened with hollow glass microspheres (3M Glass Bubbles). Contains various additives in concentrations ensuring compliance with physical parameters such as permeability and water repellency.

APPLICATION CONDITIONS

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

Applying the product in unsuitable weather conditions adversely affects drying times, compromising the optimal achievement of its aesthetic and performance properties.

DILUTION and pH

pH 9-10 . Ready to use.

CONSUMPTION

SiNERGY | 0.5 mm grain
1.8 – 2.5 kg/m² for bonding with 4-5 mm notched trowel;
1.5 - 2 kg/m² for skimming in one coat
2 - 2.5 kg/m² for skimming in two coats

Coverage may vary depending on the unevenness of the surfaces to be treated.

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DRYING

Through dry* 24-72 hours *per mm of thickness

Data refer to 20° C and 65% R.H.; drying times depend closely on the conditions of moisture and temperature.

STORAGE AND MIXING

Keeps for 36 months in the original, tightly closed containers stored indoors, away from direct sunlight, at a temperature between + 5° C and + 35° C. Protect from frost. Do not mix with other products. Any mixing alters the properties and quality of the product.

PACKAGING

SiNERGY 15 kg

METHODS AND TOOLS

Apply with a steel or plastic float. Clean with water immediately after use.

USE

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. Ironwork must first be treated with corrosion inhibitors, while aluminium, light alloys and plastic require a preliminary protective treatment. On new surfaces, remove any dust and treat with BINDER silicate-based fixative primer; on old surfaces, remove dirt and grease, strip non-adhering and synthetic old paints, scrape and brush down to the sound base, then impregnate with BINDER silicate fixative and consolidant.

APPLICATION

The product is ready to use: before application stir it slowly, without adding water. It can be applied directly on sound, cohesive, non-powdery plaster. Otherwise, the substrate must first be prepared and consolidated with a specific silicate fixative primer from the Binder range.
After installing the membrane, apply the finishing skim coat in two coats with a trowel. A compatible breathable paint or coating can then be applied.

If used as the only product to restore deteriorated walls, it can be applied as a repair mortar or with a decorative trowelled effect. A maximum thickness of 2 mm per coat is recommended. Before overcoating, always wait until the previous layer is completely dry.

When the product is applied directly as skim coat or final finish over the Isobell membrane, a preliminary bonding base coat from the Siprime range is recommended. This base coat evens out the membrane surface, covering it completely, improves the workability of the skim coat and allows application in a single coat.

Before overcoating, it is advisable to wait until the first coat is completely dry.

WATER-BASED

SOLVENT-FREE

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WARNINGS

• Silicification 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 the product, carefully cover all surfaces adjacent to the one to be painted, especially glass, ceramics, bricks, etc., to avoid damage.• 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 70%.
• 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 mineral-based finishes and paints (silicates, lime, etc.) are recommended.

The information and instructions above, although based on our best experience, are in all cases purely indicative and must be confirmed by thorough practical applications; therefore, before using the product, the user must establish whether it is suitable for the intended use and, in any case, assumes all liability arising from its use establish whether it is suitable for the intended use and, in any case, assumes all liability arising from its use establish whether it is suitable for the intended use and, in any case, assumes all liability arising from its use.

SPECIFICATION TEXT

SiNERGY
Spread the adhesive with a 4-5 mm notched trowel, covering the entire surface on which the ISOBELL membrane is to be applied. Checking beforehand that the surface on which the membrane will be installed is perfectly even and uniform, as well as cleaning and preparing the base, are recommended steps before installation. Once installed and dry, apply the skim coat for a final plaster finish. The minimum skim thickness must not be less than 1 mm. Do not apply the mix at temperatures below +8° C or above +35° C, or on frozen surfaces or surfaces at risk of frost. Once cured it must ensure a water vapour transmission rate Sd = 0.05 m (permeability) according to UNI EN ISO 7783-3 Class V1 (high permeability).

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