

BioCOATBOND LIGHT

FIBRE REINFORCED LIME BASED SMOOTHING ADHESIVE FOR BONDING AND SMOOTHING EXTERNAL WALL INSULATION SYSTEMS AND FOR SKIMMING CRACKS IN VARIOUS SURFACES

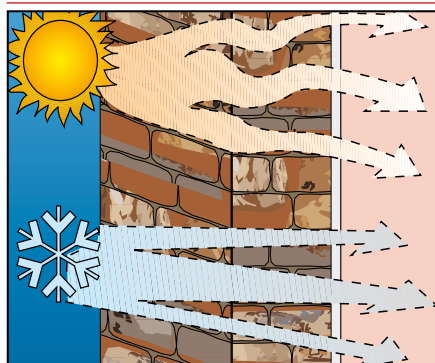
GRANTS *LEED* CREDITS



CHARACTERISTICS			ENVIRONMENTAL		METHOD OF USE				PRECAUTIONS
ONE-COMPONENT	WATER BASED	ALLOWS TO BREATHE	ECO GREEN	RECYCLABLE	MIX MECHANICALLY	APPLY BY TOOTHED SPATULA	APPLY BY TROWEL	APPLY BY INOX SPATULA	STORAGE: IN A DRY PLACE

PROBLEM

BONDING AND LEVELLING INSULATING PANELS FORMING PART OF AN ALL-OVER COATING FOLLOWING THE BIO-CONSTRUCTION RULES



SOLUTION

The insulating panels used for all-over insulation of houses require secure bonding to make them stable over time. **BioCOATBOND LIGHT** is a levelling adhesive based on natural hydraulic lime (NHL), reinforcing fibre, special resins and selected light aggregates and additives to improve workability and adhesion.



APPLICATION FIELDS

BioCOATBOND LIGHT is a product used in every all-over insulation system, and specifically for panels in mineral wools and natural fibres, polystyrene, polyurethane and calcio-silicate. Ideal as a leveller on old plastic coatings, or on concrete surfaces with adhesion problems, brick surfaces, tuff, stone or mixed materials.

ADVANTAGES

- Easy-to-use one-part product.
- Secure adhesion.
- High breathability.

METHOD OF USE

• PREPARING THE SUB-BASE

In the case of old, crumbling plaster it is always advisable to apply a coat of PRIMER FIX to fix the powdery parts.

• PREPARING THE MIX

BioCOATBOND LIGHT should be mixed with about 27% of clean water (about 5.40 litres per bag) using a mechanical stirrer at low speed, until a uniform paste free of lumps is obtained (1). The mix remains workable for about 3-4 hours, depending on the climatic conditions.



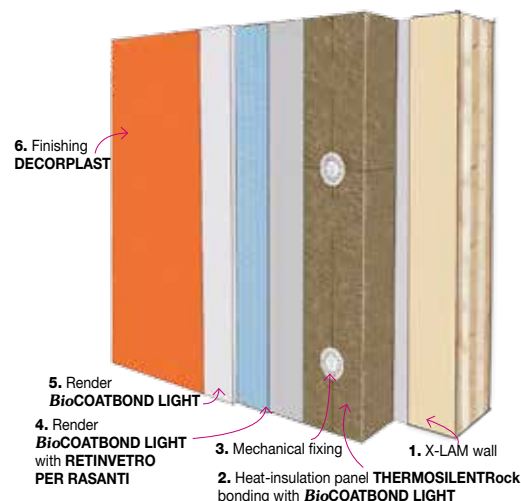
• APPLICATION

BioCOATBOND LIGHT is used to bond panels in expanded and extruded polystyrene, polyurethane, wood fibre, glass fibre, mineral fibre and cork. Spreading should be carried out with a notched or saw-toothed trowel. We recommend also applying to the edge of the panel to improve stability.

The panels should then be applied to the walls, exerting light pressure (3). For spreading, always start at the bottom, advancing uniformly layer by layer towards the top, with the panels horizontal.

After at least 24 hours **BioCOATBOND LIGHT** can be used as a skimming layer over the surface of the insulating panels, embedding in the first skimming coat a glass fibre reinforcement of RETINVETRO PER RASANTI (4) (the mesh must be pressed with a smooth trowel onto the

(See following)



View the application video on your smartphone



TECHNICAL CHARACTERISTICS

	Standard	BioCOATBOND LIGHT
Appearance		Powder
Colour		Beige
Particle size		0 to 1.25 mm
Apparent density	EN 1015-6	1.05 ± 0.05 kg/L
Mixing water		27% ± 1%
Storage in original packaging in a dry place		12 months
Mix properties and workability		
Density of the mix		1.30 ± 0.05 kg/L
pH of mix		about 12
Duration of workable mix (*)		approx. 3-4 h
Application temperature		+5°C to +35°C
Minimum application thickness		2 mm
Maximum application thickness per layer		10 mm
Application		Manual or mechanical
Performance characteristics		
Class and type	Standards	Product performance
Resistance to compression - after 28 days	EN 998-1	LW
Resistance to bending - after 28 days	EN 1015-11	≥6 N/mm ² - CS III
Adhesion	EN 196-1	≥3 N/mm ²
Water absorption through capillarity	EN 1015-12	≥0.8 N/mm ² - FP: B
Water vapour permeability coefficient	EN 1015-18	w ≤ 0.4 kg/m ² ·h ^{0.5} - W1
Thermal conductivity λ_{10,dry}	EN 1015-19	μ = 12
Durability	EN 1745 A.12	0.27 W/mK
Thermal resistance - Working temperature	EN 998-1	5.2.3.2 compliant
Reaction to fire		-30°C to +90°C
Hazardous substances	EN 13501-1	A1
	EN 998-1	According note in ZA.1

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. These parameters may vary based on the specific conditions of the worksite: temperature, humidity, ventilation, porosity of the substrate.

(*) The stated times may be longer or shorter as the temperature decreases or increases.

Compliant with the general principles defined in EN 998-1 - Principles for evaluation of the use of products and systems.

(See previous)

fresh layer of the mix and overlapped at the joints by at least 10 cm). It is advisable not to use the product on panels with a "skin" as they are totally resistant to adhesives. **We recommend fixing the panels additionally with suitable mushroom head plugs. The length of the plugs chosen should be increased by the thickness of the insulation. Adjust the depth of the holes to suit the length of the plugs +10 mm, and drill the holes only after the adhesive has hard-**



ened (after about 24 hours). The number of plugs needed is about 6 per m², but can be increased in specific areas which are particularly stressed.

• COVERAGE

When used as an adhesive, coverage is 3-5 kg/m²; as a skim coat, 2 kg/m² for coat.

• PRECAUTIONS

- Use cold water in the summer and water at 20°C in the winter.
- Application temperature from +5°C to +35°C.
- Do not add water when the mix starts to set.
- Do not add other materials such as cement, aggregates, additives.
- In hot weather, keep the surface of the laid mortar wet, preventing the product from drying out quickly, for at least 24 hours.
- Do not apply on smooth surfaces.
- Use only on panels without a "skin".
- We recommend consulting the specification

"ALL-OVER THERMAL INSULATION AND THERMAL INSULATING PLASTERS".

- Clean tools with water and the coated surfaces with a wet cloth immediately after laying.
- Do not expose the material to the sun in hot weather.
- Store in original closed packaging in a dry place. Protect against frost and high temperatures.



BioCOATBOND LIGHT can be used with any thermal insulation panel in any series of layers of all-over thermal insulation.

PACKAGING

20-kg Sacks

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

index
Construction Systems and Products

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the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering