

THERMOCAP

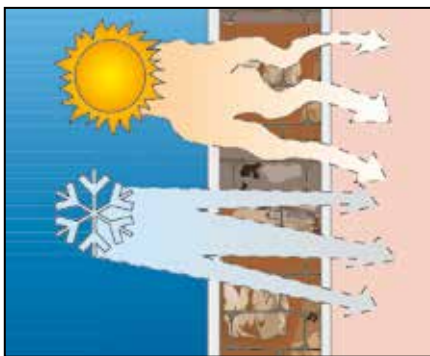
TRANSPIRING HEAT-INSULATING FIBRE-REINFORCED PLASTER
BASED ON LIME AND HYDRAULIC BINDERS
FOR EXTERNAL WALL INSULATION

GRANTS *LEED* CREDITS

CHARACTERISTICS		ENVIRONMENTAL	METHOD OF USE			PRECAUTIONS
THERMAL INSULATION	ALLOWS TO BREATHE	ECO GREEN	RECYCLABLE	MIX MECHANICALLY	SPRAY APPLICATION	APPLY BY TROWEL
						STORAGE: IN A DRY PLACE

PROBLEM

HEAT INSULATION OF FACADES



Heat insulation of walls is an extremely important issue when it comes to measuring the impact of heating costs for homes. In order to preserve the building's breathability, it is necessary to intervene with suitable plasters even on old walls.

SOLUTION

THERMOCAP is a pre-mixed dry plaster containing special lightweight aggregates formulated with ultra-pure silicate, hydraulic binders, fibres and additives for facilitating application even for thick coats, while guaranteeing maximum adhesion and compatibility with any type of wall.

Its special formula with absolutely inert material makes **THERMOCAP** a unique plaster among its kind that combines thermal insulation, mechanical resistance, durability, breathability and total inertness to fire.

APPLICATION FIELDS

THERMOCAP is highly recommended for heat-insulating blankets on buildings, on any type of wall.

Its high degree of breathability makes it suitable for insulating old and new walls. Moreover, thanks to its natural silicate-based formula, it has a Class 0 fire rating according to Italian regulations and a Class A1 rating according to the German DIN 4102 standard, as a non-combustible material.

THERMOCAP is an eco-friendly insulating plaster.

ADVANTAGES

- High insulating power.
- Allows for plastering surfaces up to a high thickness with a single coat.
- High mechanical resistance.
- Total inertness to fire.



METHOD OF USE

• SURFACE PREPARATION

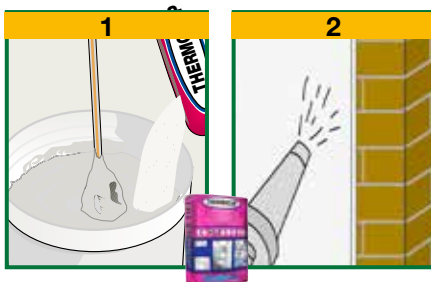
Thoroughly clean the surfaces to be plastered by removing flaking parts, oils, dust and dirt in general by tapping, brushing and washing them with water.

• PREPARING THE MIX

THERMOCAP is prepared by mixing the product with right quantity clean water (see table) (1).

• APPLICATION

It can be applied either by hand or mechanically (2). To reach a thickness exceeding 4 cm, apply



two separate coats. Thanks to the product's exceptional workability, it can be applied on any architectural solution.

It is advisable to first apply a render coat to favour the product's anchorage and to uniform the substrate's absorbency.

• FINISHES

For painting purposes, it is advisable to use highly breathable lime-, silicate- or siloxane-based wall paints, such as *BioCALCECOLOR* or *SILICOLOR*, or decorative mineral coatings such as *DECORFINE*.

• COVERAGE

Consumption hovers around 6.5 kg/m² per cm.

• PRECAUTIONS

- Use cold water during summer and water at 20 °C during winter.
- Application temperature: from +5 °C to +35 °C.
- Do not add other materials such as binders, aggregates or additives.
- During the hot season, keep the surface of

the laid mortar damp so as to prevent the product from drying rapidly, for at least 8 hours.

- Avoid mixing less than one bag at a time.
- Wet the surfaces in case of high temperatures.
- Do not add water once the mix starts to set.
- Avoid sudden temperature changes while the plaster is setting.
- Joints involving different elements must be reinforced with special fibreglass mesh, *RETINVETRO PER INTONACI*, which should be embedded in the last layer of plaster.
- Store the product in its original closed packaging in a dry place. Protect against frost and high temperatures.

TECHNICAL CHARACTERISTICS

		THERMOCAP
	Standard	
Appearance		Powder
Colour		Grey
Particle size		0 ÷ 1.3 mm
Apparent density	EN 1015-6	0.55 ± 0.05 kg/L
Mixing water		49% ± 1%
Storage in original packaging in a dry place		12 months
Mix properties and workability		
Density of the mix		0.75 ± 0.05 kg/L
Application temperature		+5°C ÷ +35°C
Minimum application thickness		8 mm
Maximum application thickness per layer		40 mm
Application		Manual or mechanical
Performance characteristics		Product performance
Class and type	EN 998-1	T
Resistance to compression - after 28 days	EN 1015-11	1.5 N/mm ² - CS I
Resistance to bending - after 28 days	EN 196-1	0.7 N/mm ²
Adhesion	EN 1015-12	>0.20 N/mm ² - FP: B
Adhesion - to the concrete support	EN 1015-12	0.37 N/mm ² - FP: A
Water absorption through capillarity	EN 1015-18	w ≤ 0.4 kg/m ² ·h ^{0.5} - W1
Water vapour permeability coefficient	EN 1015-19	μ = 8
Thermal conductivity λ_{10,dry}	EN 1745 A.12	0.09 W/mK
Durability	EN 998-1	5.2.3.2 compliant
Thermal resistance - Working temperature		-30°C ÷ +90°C
Reaction to fire	EN 13501-1	A1
Hazardous substances	EN 998-1	According note in ZA.1

Test conditions: temperature 23±2°C, R.H. 50±5% and air speed in the test area <0.2 m/s. **These figures may vary depending on the specific conditions of the worksite: temperature, humidity, ventilation, absorbency of the base coat.**

(*) 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.

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 regarding the properties and the use of the product. Considering

PACKAGING

11-kg Sack

• 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 •

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