



AFONTERMO®

The 1st Thermo-reflective skim coat for insulation

Patented and on the market for over **20 YEARS**



MADE IN ITALY

AFON CASA
BUILDING INNOVATION

AFONTERMO® has been revolutionizing the concept of thermal insulation for over 20 years

AFONTERMO® was conceived and patented in 2006 with a clear objective: to overcome the limitations of traditional insulators, which are often too thick, lack breathability, are difficult to apply, and are prone to problems with mold, condensation, and flammability.

AFONTERMO® is the **first breathable Thermo-reflective, extra-thin skim coat**. It is a patented product that revolutionizes the common concept of insulation thanks to an exclusive formula and exceptional performance.

Unlike conventional bulky systems, **AFONTERMO®** insulates with only a few millimeters, reflecting heat and improving the building's energy efficiency in both winter and summer.

The product is **composed of**:

- **Natural thermal aggregates**, which guarantee high insulating power.
- **Natural multi-reflective aggregates**, providing the product's reflective properties.

AFONTERMO® is **non-toxic, hypoallergenic, non-flammable**, and complies with the Minimum Environmental Criteria (CAM). It is suitable for both interiors and exteriors.

How does AFONTERMO® Work?

Thanks to its **reflective, thermal, and breathable properties**, **AFONTERMO®** guarantees highly effective thermal insulation.



It contains thermal, reflective, and breathable aggregates.

Its reflective properties allow it to act as a thermal mirror, capable of reflecting up to 80% of heat, preventing it from being absorbed by the building structure.

- **Direct reflection:** heat is immediately repelled by the treated surface.
- **Low emissivity:** the thermal absorption of the wall is reduced, minimizing heat dispersion towards the outside.

Depending on the type of application – whether internal or external – AFONTERMO® responds specifically to insulation and thermal protection requirements.

Internal Application:

When applied to the interior of the building, AFONTERMO® optimizes the thermal behavior of the environment in all seasons:

- In winter, it reflects the heat generated internally, reducing thermal dispersions and maintaining a comfortable temperature with less use of heating.
- In summer, it prevents external heat from penetrating, helping to keep environments cooler and limiting the need for air conditioning.

External Application:

When applied to the exterior of the building, AFONTERMO® acts with an opposite but equally advantageous effect:

- In winter, it prevents heat from being dissipated, reducing thermal dispersion and improving insulation efficiency.
- In summer, it directly reflects external heat, avoiding the overheating of walls and contributing to greater living comfort.

This double functionality of the reflective property, combined with its thermal and breathable characteristics, makes **AFONTERMO®** a precious ally for achieving optimal energy performance in any season of the year, without the need for invasive interventions.



A single product, multiple benefits for a more sustainable construction



High thermal performance in just a few millimeters

AFONTERMO® offers superior insulating performance with minimum thickness, guaranteeing more living space and maximum effectiveness.



Prevents and eliminates mold and condensation

Its high thermal and breathable properties optimize indoor air quality, with a vapor permeability index ($\mu = 9.1$) among the lowest in its category.



Immediate energy savings

It significantly reduces heat loss and improves the building's energy efficiency, which translates into a tangible reduction in heating and cooling costs.



Continuous insulation, without thermal bridges

It guarantees continuous and homogeneous insulation, eliminating the discontinuities that compromise efficiency. The result is a more efficient and comfortable environment throughout the year.



Rapid and non-invasive application

It is easily applied, without the need for masonry work or structural interventions, reducing time and costs on the construction site. Ideal for interiors, facades, and even historical buildings.



Ecological, safe, and certified

It complies with the Minimum Environmental Criteria (CAM), is non-toxic, hypoallergenic, and certified to guarantee a healthy environment. Ideal also for green building projects.

Heat reflectance test

In a laboratory test performed on an iron sheet coated on one side with 3 mm of AFONTERMO®, and exposed to 135.5 °C using an industrial heat gun, the opposite face did not exceed 26.3 °C.

The result confirms a **thermal barrier of over 80 °C** and demonstrates the heat-reflective effectiveness of AFONTERMO® even on high-conductivity metallic substrates.



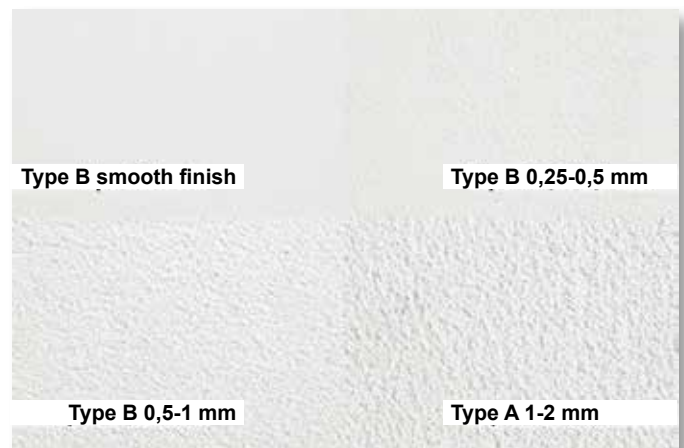
APPLICATION

Afontermo®, is a ready-to-use paste contained in 14 lt. buckets. It can be applied indoors or outdoors in several layers, using a smooth-edged trowel, until the necessary thickness is reached, which is usually between 4 and 12 mm.

Afontermo® can be painted using **Thermopittura Afon casa**
For more details regarding the application see the technical datasheet.



Application using a smooth-edged trowel



Grain size of the various finishes

TECHNICAL DATA SHEET

| | |
|--------------------------------------|---|
| THERMAL CONDUCTIVITY | Applied indoors: $\lambda = 0,001 \text{ W/mK}$ - Applied outdoors: $\lambda = 0,003 \text{ W/mK}$ |
| REFLECTANCE | R=80% |
| VAPOUR RESISTANCE | $\mu = 9.1$ |
| SPECIFIC HEAT | 1493 J/kgK (40°C) - 2089 J/kgK (90°C) |
| APPROX YIELD TYPE A | 2 lt/m ² sp. mm 2/2,5 |
| APPROX YIELD TYPE B | 1.5 lt/m ² sp. mm 1 |
| SPECIFIC GRAVITY | 490 Kg/m ³ |
| NON-COMBUSTIBLE | A1 |
| CAPILLARITY WATER ABSORPTION RATIO | 0.11 Kg/m ² min ^{0.5} |
| STRENGTH AND DEFLECTION CRITERIA | 1.08 N/mm ² |
| RESISTANCE TO BUCKLING | 0.38 N/mm ² |
| ADHESION STRENGTH BY DIRECT TRACTION | 0.257 N/mm ² |

Selected completed projects

These are some of the completed projects; to see more, visit the website www.afontermo.com



PORDENONE:
Facade treated with Afontermo®



RAGUSA: Building used as the set for a famous Italian TV series "Il Commissario Montalbano".
Facade treated with AFONTERMO®



PISA: Facade treated with AFONTERMO®



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BUILDING INNOVATION

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