

## AFON TERMO® IL NANOCAPPOTTO®

Extra-thin anti-condensation reflective insulating coating with photo-catalytic properties



INDOOR - OUTDOOR

### General description

**AFONTERMO IL NANOCAPPOTTO** is the only finish for masonry that functions as an extra-thin anti-condensation reflective insulating coat.

Thanks to its heat reflecting and high insulating properties it prevents the dispersion of heat through the masonry during the winter and, if applied outdoors, will reflect and reject the heat of the summer sunshine. This allows a comfortable temperature in all seasons.

The photo-catalytic properties of the product maintain the facades of buildings white and destroy harmful pollutants like PM10, making them harmless.

**AFONTERMO** is a white doughy mass, ready for use, made of natural insulating aggregates.

The product is made with various size particles that render different finishes. **AFONTERMO** is to be applied in two very thin layers, approximately a 5 mm layer if applied on the inside, and a 6 mm layer if applied on the outside.

Once **AFONTERMO** dries the wall can be painted. The product is naturally white, but it can be also painted using exclusively our "PITTURA THERMOFOTOCATALITICA", that, if desired, can be colored with mineral oxides.

Applied on horizontal and vertical surfaces of building's it substitutes completely the traditional insulating coat and eliminates thermal bridges preventing condensation and mold, meanwhile the great breathability of the product permits the natural flow of vapor throughout the walls.

### Supply

12 Kg. plastic buckets

### Methods of use

**AFONTERMO IL NANOCAPPOTTO** is used as insulation for walls or surfaces of existing or new constructions. Thanks to its elasticity and adherence to any surface (masonry, steel, reinforced concrete, wood, glass, PVC pipes, steel pipes, etc.) it achieves long lasting and high resistance to all atmospheric agents.

### Preparation of the surface

Before applying **AFONTERMO**, particular attention must be paid to the paint previously applied to the surfaces. If the surfaces where previously painted with washable, non-breathable or siloxanic paint, or in the case the painted surface crumbles, the old layer of paint should be removed and a layer of **FISSATIVO AFON CASA** must be applied.

**FISSATIVO AFONCASA** should also be applied on gypsum based surfaces.

In the case of new constructions with a finishing veil applied on the masonry, it's important to wait for all surfaces to dry and only after applying **FISSATIVO AFON CASA** proceed with the application of **AFONTERMO IL NANOCAPPOTTO**.

Generally, before the application of **AFONTERMO**, all surfaces must be completely dry and free of any sign of permanent or rising humidity.

## Application procedures:

### INDOOR USE

- Mix the product directly in its pail using an electric whisk. The product must be mixed until it becomes homogeneous creamy and soft.
- Apply evenly using a smooth-edged steel trowel. For a correct application follow these procedures: Once the first layer is completely dry, approximately 48 hours, proceed by applying a second layer of **AFONTERMO type B** available in the following finishes:
  - **AFONTERMO type B – smooth finish.** Before application add a flask of **INDURITORE AFON CASA** (hardner) then proceed mixing the product directly in the pail with an electric whisk. Before eventually proceeding with the painting of the wall wait for the surface to dry completely (about 48 hours).
  - **AFONTERMO type B 0,25-0,5 – Civil finish.** The particle size is similar to fine sand. If necessary proceed with painting only after complete drying (approximately 48 hours).
  - **AFONTERMO type B 0,5-1 mm. – Civil finish.** The particle size is similar to the traditional plaster. If necessary proceed with painting only after complete drying (approximately 48 hours).

### OUTDOOR USE

- After adding a flask of **CATALIZZATORE AFON CASA** (catalyzer) for each pail of **AFONTERMO Type A CORAZZATO** (Armored Afontermo for external use) mix the product until it becomes homogeneous creamy and soft.
- Proceed by applying evenly the product to the surface using a smooth-edged steel trowel. When the first layer is completely dry, after approximately 48 hours, proceed by applying a second hand of the same type of **AFONTERMO**. Painting must be done using exclusively our **PITTURA THERMOFOTOCATALITICA AFON CASA**.
- **Attention:** in fall or winter and more generally in presence of high humidity levels, the product takes from 2 to 6 days to dry, so be sure the surfaces are completely dry before applying the second layer of **AFONTERMO**.
- Do not apply **AFONTERMO CORAZZATO** during adverse weather conditions like rain or hail.



Watch the video on  
YouTube

## AFONTERMO type B\* Finishes

Type A/B sp. 1-2 mm



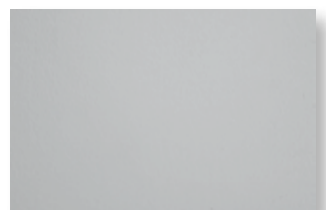
Type B sp. 0,5-1 mm



Type B sp. 0,25-0,5 mm



Type B smooth finish



\*The only purpose of the images is to illustrate approximately the looks of the finished product. Colors are not faithful to reality.

## Warnings

- Mix the product if it is dense and excessively compact or dry.
- Apply only on well-cohesive, resistant, compact and stable surfaces; otherwise restore the underlying plaster and, only after drying, proceed with the application of **AFONTERMO**;
- If applying on new plaster at least 28 days must pass to ensure perfect drying of the substrate before applying **AFONTERMO**;
- On substrates that have a tendency to chalk, crumble or that are particularly absorbent, first apply the **FISSATIVO AD ACQUA NON FILMANTE** (non-filming Afon Casa water fixative), then, once completely dry, proceed by applying **AFONTERMO**;
- Avoid applying the product with temperature below 5 ° C;
- Never add binders or inert substances to the material to avoid compromising the characteristics of the material;
- Do not cover **AFONTERMO** using ceramic tiles and / or coatings in general;
- In presence of new plaster, always apply our **FISSATIVO** (fixative) before the application of **AFONTERMO**;
- **Attention:** in fall or winter and more generally in presence of high humidity, the product takes from 2 to 6 days to dry, so be sure the surfaces are completely dry before applying the second layer of **AFONTERMO**;
- Do not apply **AFONTERMO** during adverse weather conditions like rain or hail.

## Conservation

Store indoors and protected from the sun. If the pail is sealed well the product is maintained for 12 months.

## technical data

THERMAL CONDUCTIVITY	Applied inside: $\lambda_{eq.} = 0,000918$ W/mK Applied to the exterior: $\lambda_{eq.} = 0,0029$ W/mK
REFLECTANCE	R=80%
VAPOUR RESISTANCE	$\mu = 9.1$
SPECIFIC HEAT	1.000 J/KgK
APPROX YIELD TYPE A	2 kg/sqmt, 3 mm thick on flat surfaces
APPROX YIELD TYPE B	1.5 kg sqmt, 1 mm thick
SPECIFIC GRAVITY	490 Kg/mc
LIFE OF THE PRODUCT IN AQUEOUS SUSPENSION	12 months.
PACKAGING	(12 kg) 14 litre plastic buckets
APPEARANCE	White doughy mass
NON-COMBUSTIBLE	A1
CAPILLARITY WATER ABSORPTION RATIO	0.11 Kg/mq min <sup>0.5</sup>
STRENGTH AND DEFLECTION CRITERIA	1.08 N/mm <sup>2</sup>
RESISTANCE TO BUCKLING	0.38 N/mm <sup>2</sup>
ADHERENCE BY DIRECT TRACTION	0.257 N/mm <sup>2</sup>