



# Thermoisol

## Thermal insulating plaster

CODE 4008



### COLOUR

light grey

### PACKAGE

50 Lt paper sacks with closing valve

### STORAGE

6 month at least, in its original unopened packaging, on wood pallet in a dry place.

### CHARACTERISTICS

THERMOISOL is a mineral plaster with an high thermal insulating power from T1 category, fibre reinforced, very breathable and vapor repellent to the outside. It is made by virgin flame retardant polystyrene microspheres with an high density, and specific additives. It is a powder product and it must be mixed with water for a manually or mechanical application, conforming with European law 89/106/CEE in reference with UEI EN 998-1; for an interior or exterior application, it is compatible with finishing coats based on lime plastic, silicates and siloxane.

### APPLICATION PROCEDURE

#### SUBSTRATE PREPARATION

Before the product application, the masonry must be coarse, clean, hard and absorbent, free from crumbling parts, oils, greases and everything that prevent a good adhesion. Soak abundantly the substrate and apply an uniform lay render based on cement and sand (one part cement and two parts washed sand) or a premix cementitious gripping and let cure for 2/3 days. On difficult substrates (like old masonry), it is recommended to apply before a fiberglass mesh for plaster reinforcement.

#### PRODUCT PREPARATION

Mix about 8/10 Lt of water for every 50 Lt sack (about 13 lt). It is important to mix all the sack contents and not just a part, because the components try to separate during the storing or the handling, because they have different specific weights.

#### PRODUCT APPLICATION

The air temperature and the substrate temperature during the application must be between +5°C and + 30°C. Apply the product with a trowel or mechanically. If the product is mix with a machine, the best mixer is the conventional one, the free fall mixer. Level the product with a slat or a wood or aluminum straightedge. For large thicknesses apply the product in several layers, when the previous layer begin the grip (about 3/4 hours). During hot period is recommended to soak the applied plaster for 24/48 hours at least, at close intervals to avoid fast evaporation with consequent possible formation of superficial micro-cracks. Before the application of any finishing product it must pass 15/20 days at least (approximately it must pass 5/6 days for any centimeter of thickness). The surfaces treated with THERMOISOL mustn't be subject to forceful jets of water and they are not suitable for tiles covering or similar. Before any kind of finishing, we suggest to apply a lay of RASOCEM KR white or grey dipping an adequate fiberglass mesh. The mortar mixed with water must be employed by two hours.



Example of application of Thermoisol plaster.

## FINISHING

To guarantee a better resistance and to apply finishing plasters low thickness, it is necessary to implement a smoothing in two layers with RASOCEM KR grey or white with the annex primed fiberglass mesh layer. Later it will be possible the application of a lime-base finishing (like Intocolor KR KRF) plastic coverings (Taormina Plast) silicates coatings (Taormina Sil) or siloxane coatings (Taormina silox).

## CONSUMPTION

a 50 lt sack for every 4 cm of thickness (about 12,5 lt for any thickness centimeter)

Minimum plaster thickness:

Indoor 2 cm

Outdoor 4 cm

## TECHNICAL DATA

### PRODUCT IDENTIFICATION DATA

<b>Appearance</b>	Powder
<b>Colour</b>	Light gray
<b>Granulometry</b>	1 - 2 mm

### APPLICATION DATA

<b>Waiting time after the render</b>	2 - 3 days
<b>Applicable thickness</b>	2 cm for any coat
<b>Mixing time</b>	3 - 5 minutes
<b>Application temperature</b>	from +5°C to +30°C

**FINAL PERFORMANCES ACCORDING TO UNI EN 998-1**

<b>Mix ratio</b>	50 lt sack with 8/10 lt of water
<b>Density</b>	480 kg / m <sup>3</sup> (UNI EN 1015-10)
<b>Pot life</b>	325 minutes (UNI EN 1015-9)
<b>Air content in the fresh mortar</b>	0,9% (UNI EN 1015-7)
<b>Flexural strenght (f)</b>	1,2 N/mm <sup>2</sup> (UNI EN 1015-11)
<b>Compressive strenght (Rc)</b>	1,9 N/mm <sup>2</sup> CSII category UNI EN 1015-11)
<b>Adhesion on the substrate</b> <b>CLS</b> <b>Claybrick</b>	0,3 N/mm <sup>2</sup> – FP:B (UNI EN 1015-12) 0,1 N/mm <sup>2</sup> – FP:A-B (UNI EN 1015-12)
<b>Water absorption coefficient</b>	W1 (UNI EN 1015-18) W=0,25 kg/m <sup>2</sup> xmin <sup>0,5</sup>
<b>Permeability to water vapor</b>	μ 0,3 (UNI EN 1015-19)
<b>Fire reaction :</b> atmosphere test 20°C, UR 50-93%	A1 Class
<b>Category of thermal conductivity</b>	T1
<b>Thermal conductivity</b>	0,047 W/m K
<b>Thermal resistance</b> atmosphere test 10°C, UR 40%	1,053 m <sup>2</sup> K/W

**CAUTIONS**

Do not employ the product in a temperature lower than +5°C or larger than +30°C. Do not employ under the direct action of the sun, under the rain or with frost risk. Let cure well the plaster before any kind of finishing application, let pass approximately 5/6 days for every centimeter of applied thickness.

**SPECIFICATION TEXT**

Thermal insulating for masonry with the realization of a plaster with high thermal insulating power breathable fibre reinforced, ready to use, for the interior or the exterior, for an manual or mechanical application; Plastimur s.r.l TERMOISOL, according to UNI EN 998-1, made by polystyrene microspheres (flame retardant) and specific additives; it has a thermal conductivity of 0,047 W/m K, applied in a thickness of 4 cm, for a consumption of about 12,5 lt/mq, on surfaces previously treated with a cementitious gripping render of Plastimur s.r.l totally covering.