



# Thermofond

## Thermo-insulating and dehumidifying plaster based on expanded glass

Thermo-insulating and dehumidifying plaster based on expanded glass composed by hydraulic bonding agents, low salts mineral inerts, fibers and specific additives which give the product superior porosity, enabling the masonries to be more breathable and making environments more comfortable and healthy.

Available also in the EcoCalce product line, based on hydraulic lime (NHL 3,5), EN 459-1, TF 2000 certified.

### Use

Used for both indoor and outdoor, for the resanation of old masonries affected by rising damp and for the realization of new plasters, to achieve highly breathable and thermo-insulated environments.

Applicable by hand or machinery on masonries such as:

- Cement blocks
- Tuff
- Bricks
- Concrete or rough surfaces
- Mixed stone

### Application Cycle

#### Support preparation

Remove previous plaster from target walls for more than 1 meter from damp marks.

Substrate must be perfectly solid, free from dust, dirt, failing parts and efflorescences that could compromise adhesion.

In the presence of efflorescences and salts on the surface, wash with low pressure water. In the presence of masonries with an excess of salts, treat the support with Sal Mur.

Wet the support before application and wait the superficial water to evaporate.

It is recommended to apply a 5mm coat Thermo Rinzafo in advance, to even the absorption of the support and enhance adhesion of the plaster.

Prepare the vertical guides with the Thermofond plaster.

#### Mixture Preparation

To apply by hand, pour in a container the right amount of water to mix a bag of Thermofond, add gradually the

powder and mix with a low-rotation stirrer or cement mixer until an even, clump-free mixture is achieved. Let rest for 5 minutes and stir briefly before usage.

To apply via machinery, use a plastering machine equipped with thermo-plaster kit (rotor, mixer, D6-3 stator, rotor screw), adjusting the flow-meter in order to obtain a thixotropic consistency.

### **Application**

Apply by and or by plastering machine, for a thickness of 2cm in a single coat. Proceed from bottom to top and then level with an aluminum stadia both vertically and horizontally.

To achieve further thickness wait the previous coat to grip (approx. 24 hours).

Remove vertical guidelines and fill the gaps with the same product.

The superficial finish of the plaster (scraped or troweled), must be performed approximately after 4 hours (depending by weather).

Wait for complete curing of Thermofond before proceeding with smoothing (ThermoRasa) and finishing (I-Reflex Paint, Thermica IN).

### **Recommendations**

Use clean, non-brackish water. Apply between 5°C and 35°C. Do not apply in high sun exposure and on rainy/windy days. Protect from rain, wind, sun and rapid desiccation for 24-48 hours after application. In case of application during summer, ensure a constant desiccation by using Sunshields/Windbreakers. Do not add materials, cement or other bonding agents in the bag. It is recommended to mix the entire content of the bag in one solution. It is recommended to wet the substrates the day before application. It is recommended to wet the substrate the day before application. During application via plastering machine, avoid to overheat the motor.

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### **Technical data**

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**Application:** flat trowel - plastering machine

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**Packaging:** kg 25

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**Colour:** grey

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**Mixing water:** approx. 10-12 l per bag

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**Consumption:** approx. 7 kg/sqm per cm of thickness

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**Maximum diameter of aggregate:** 2 mm - EN 1015-1

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**applicable thickness:** 2 cm per coat

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**Application temperature:** from +5°C to +35°C

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**Workability time:** approx. 60 min

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#### **CHIRAEMA**

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**Adhesion-FP:** > 0.3 N/mm<sup>2</sup> - B - EN 1015-12

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**Water absorption:** class W 0 - EN 1015-18

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**Coefficient of permeability to water vapour  $\mu$ :** 10 - EN 1015-19

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**Thermal conductivity:** 0.086 W/m K - tabulated value according to EN 1745

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**density of hardened mortar:** approx. 0.65 kg/m<sup>3</sup> - EN 1015-10

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**Compressive strength:** 3.2 N/mm<sup>2</sup> - class CS II - EN 1015-11

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**Flexural strength:** 0.4 N/mm<sup>2</sup> after 28 days - EN 1015-11

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**Reaction to fire:** Euroclass A1 - EN 13501-1

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**Durability:** NPD

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**Tools cleaning:** water soon after use

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**Pallet:** 60 bags of kg 25

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Data contained in technical data sheets refer to laboratory tests. Indications and methods may be subject to change over time, depending on any technological and productive improvements. Products application takes place out of our control, as we cannot directly intervene on the conditions of the construction sites and on the execution of the works. All indications are general and do not bind our company in any way and therefore the responsibility falls exclusively on customer. We recommend a preventive test of the product in order to verify the suitability in relation to its particular use. Technical service is available to provide additional information.

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