

# MASSETTO TERMICO 0,045

*Concrete slab heat 0,045*

## Sound, Thermic and Condensation barrier



Alveolar mass  
absorbs sound waves.

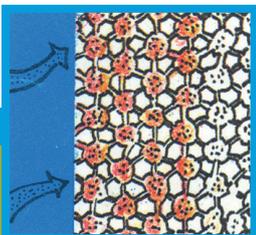


Cork insulating aggregates

### Sector of use:

To be applied under the paving between a floor and the other, or under the paving of the ground floor: to eliminate humidity and condensation. To be applied under tile: to create Heat-insulating and waterproofing slabs and for insulating terraces.

**Alternative to  
common slab**



**AFON CASA**  
PRODOTTI SPECIALI PER EDILIZIA E RESTAURO

# Technical details

## Applications

**Massetto Termico 0,0045**, is made with natural aggregates with high Thermic potential, responds to the various needs of modern building by combining in itself two basic functions:

- 1) Thermic insulation,
- 2) Acoustic insulation.

In fact, once 5 cm of **Massetto Termico 0,0045 concrete slab** is poured in place (using a steel frame), it creates a Thermo-acoustic isolating slab. Another very important characteristic of **Massetto Termico**, is its very low specific gravity, that allows to renovate old buildings without over-loading the structure.

The noticeable advantages of using **Massetto Termico 0,0045** also extend to other uses :

- It can be used as a filler for subsequent pasting of the parquet, or other covering options, it also can be used between two floors, under the flooring, to break down noise due to falling or footfall sounds.
- To insulate homes/apartments over porches or arcades, to create insoles to prevent humidity under the pavement or at the ground floor.

Being a thixotropic product, it's ideal for thermic insulation for porches with underlying apartments/homes . The thixotropic characteristics of **Massetto Termico** , ease application on desired slops/ inclinations.

**Massetto Termico 0,0045** is to be mixed with cement and water.

## Technical data

<b>Thermic conductivity:</b>	$\lambda=0,045$ Kcal/m <sup>2</sup> /h/°C (0,055W/mK)
<b>Resistance to vapor diffusion:</b>	$\mu =5,3$
<b>bulk density:</b>	100kg m <sup>3</sup>
<b>Dry mass weight:</b>	475Kg m <sup>3</sup> circa
<b>Compression resistance:</b>	12 Kg cm <sup>2</sup> after 30 days
<b>Fire resistance:</b>	Incombustible
<b>Behavior in the case of aggression from biological agents:</b>	It doesn't rot
<b>Drying time:</b>	5-6 days
<b>Water release:</b>	30 days
<b>Yield:</b>	kg 1/m <sup>2</sup> /thickness cm1
Weight of 1 sack:	20 Kg

## Mixing instructions

Use a 250 lt. cement mixer:

- Begin inserting 35 lt. of water
- 75 kg of Portland cement
- 1 lt. of 370/c additive
- 1 20 Kg sack of **Massetto Termico 0,0045**

Make sure that the cement doesn't attach to the bottom of the mixer, in that case, stop the mixer and detach the cement.

Tilt the mixer, wait for the water to dampen all the mass, if not sufficient add more water in a small quantity. If instead it appears to be too soft correct it by adding some lime. Let the mixer turn for about 5 to 7 minutes. Attention: If the mass mixes more than necessary, the mass incorporates too much air and becomes inconsistent, unsuitable for use. Contrariwise if it doesn't mix enough it incorporates too little air and the alveoli don't develop the necessary consistency and will not work excellently. The mix should result Thixotropic: soft and dense.