

INSULATING MATERIAL



AVAILABLE IN BIG BAG 1 O 2 M³

DESCRIPTION

Bio Beton® is a massive insulating material that combines properties of insulation and thermal mass. It is composed of **Canapulo Grosso** (certified CenC), **Legante Dolomitico Naturale** (hydrated dolomitic lime) and **Additivo Probiotico** (symbiotic microorganisms). Respecting the principles of social and environmental sustainability, it has all the characteristics required of a building material in line with sustainable development: high insulating capacity, low embodied energy and the ability to absorb CO₂ from the atmosphere.

CHARACTERISTICS

- Thermal, acoustic and hygrometric comfort, Bio Beton® is breathable (vapour permeable).
- Resistant to fire, frost, insects and rodents.
- Absence of toxic fumes in case of fire.
- Low energy consumption during manufacturing.
- Recyclable.

APPLICATIONS

- Insulation of roofs, floors and attics.
- Construction of insulating and breathable masonry walls.
- External wall insulation system for existing buildings.
- Internal wall insulation system for existing buildings.
- Subfloor insulation.

LAYING

- The product is laid by casting it onto roofs, floor screeds, attics, subfloor or into formwork.
- The product is delivered already mixed and ready for use in 2 cubic meter big bags.

Thickness - cm	10	15	20	30	40
Density - Kg/m ³ dry	175	175	175	175	175
Thermal Conductivity - W/mk LAMBDA λ	0,053	0,053	0,053	0,053	0,053
Thermal Transmittance - W/m ² K U	0,49	0,33	0,25	0,17	0,13
Vapour permeability - μ	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$	$2,8 \leq \mu \leq 3,5$
Specific heat capacity - J/KgK	1480	1480	1480	1480	1480
Compression behaviour (strain at 10%) - kPa	71	71	71	71	71
Thermal offset (according to ISO 13786)	3h 40'	6h 20'	9h	14h 30'	20h
Soundproofing index when placed on a wooden floor (Rw) - dB			40		
Reaction to fire on roof	B _{roof} (t2)	B _{roof} (t2)	B _{roof} (t2)	B _{roof} (t2)	B _{roof} (t2)