ISOLATION THERMAL CORK TECHNOLOGY

"Innovative technology made with natural cork"



ISOLATION THERMAL CORK TECHNOLOGY

GLOBAL WARMING

Global warming consists of the increase in the temperature of the earth, which is reflected in the oceans and the atmosphere mainly caused by the emission of greenhouse gases emitted by human activity.



TEMPERATURE RISE

Over the past 100 years, the global average temperature has risen 0.76 °C and eleven of the twelve hottest years since 1850 are concentrated between 1995 and 2006. In Spain, that warming has been 1.5 °C. In the Arctic, up to 5°C.



HIGHER ENERGY CONSUMPTION

According to the Practical Energy Guide of the Institute for Energy Diversification and Saving (IDAE), for every degree that we increase the temperature, energy consumption increases by approximately 7%.





WHAT IS ISOLATION CORK TECHNOLOGY? Membrane type

Waterproof, thermal and acoustic isolation membrane based on styrene-acrylic resins in aqueous emulsion. It is specially formulated to reduce the passage of heat into the indoor of the treated area. Thermal breaking thus saving energy. It is used for waterproofing facades and roofs. Its mechanical properties and water resistance reduce the formation of cracks, compared with other market products it stands out for its elasticity, high resistance to atmosphere agents and good adhesion to supports like as concrete, cement, plaster, brick, glass and moist supports. Elastic, breathable waterproof, sound isolating, shock damping, masking defects on supports, it avoids condensations. Applying indoor it avoids the migrations of the comfort temperature to the structure, thus saving energy.

It is a water product; it is not toxic, flammable or dangerous. It is easy to apply.

Thermal conductivity of the active ingredient - λ = 0,038 Kcal/h°Cm. Free of volatile organic compounds, according to regulation. "Certificate for asbestos encapsulation."



"The use of natural cork in the Isolation family provides us with the best of nature in its natural form for our projects."



WHAT IS ISOLATION CORK TECHNOLOGY? Mortar type

Dry mortar formulated with cement, natural hydraulic lime, crushed natural cork, and select limestone aggregates, intended for insulating renders, with improved acoustic and thermal insulation compared to conventional lime and sand renders. Suitable for interior or exterior walls and ceilings. The mortar has physical-chemical and mechanical properties of vapor permeability, breathability, and durability. Due to the nature of its natural cork content, it provides treated surfaces with fire-retardant protection, preventing the spread of fire in case of a fire.

Thermal conductivity of the active ingredient - λ = 0,038 Kcal/h°Cm.



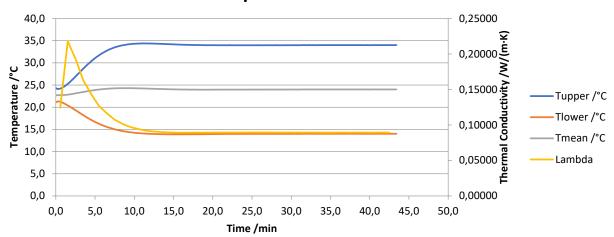
"The use of natural cork in the Isolation family provides us with the best of nature in its natural form for our projects."



ISOLATION THERMAL CORK TECHNOLOGY

TECHNICAL TESTS

Temperatures vs. Time



"Cork, by its very nature, will never rise above 35°C, and will never fall below 15°C. This provides us with a working range between these two values, keeping the treated areas consistently within this temperature range."









"Cork is a natural product obtained from two types of oak trees, Quercus Suber and Quercus Occidentalis. In the structure of its cells, which are spherical, we can find membranes that contain internal air vacuoles. The contact between its cells is complete and perfect, without pores or gaps, which gives cork very special characteristics. Among these, we can highlight its lightness and elasticity, as well as its thermal and acoustic insulation properties, and its fire-resistant properties."

ISOLATION THERMAL CORK TECHNOLOGY

An easy, innovative and economical solution for a more efficient home and industrial structures

- Thermal insulation
- Waterproofing
- Sound insulation
- Fire-retardant
- Decorative











