

Cork Granules

Ecologic blond cork granules for thermal insulation of dry floors, suitable for wet environments

Environmentally-friendly insulation system made with natural cork panels



| AREAS OF APPLICATION

Cork **granules** is a natural insulating cork granulate and levelling loose material made with crumbled blonde cork: there's no additives. It is characterized by excellent values of thermal insulation and breathability right from natural cork.

These properties reduce the moisture and humidity formation more than other traditional product; another smart characteristic of cork granules is to ensure an excellent soundproofing, making it an ideal product for the construction of impact sound floors of the inter-floor slabs, thanks also to its high compressive strength.



Cork **granules** are ideal for the realization of thermo-acoustic insulation in insulating and ecologic dry floors, between floor and screed: solution that, in addition to guaranteeing the necessary thermo-acoustic insulation required by the new regulations and hygrometric regulation with healthy materials, performs the primary functions of:

- absorb flatness errors with the possibility, if necessary, to bring the surface of the coating layer to the predetermined level;
- incorporate and protect the pipes of electrical and plumbing underfloor systems, with adjustable thicknesses and suitable to form a laying surface;
- promote the elasticity to compression and bending and distribute the loads concentrated on the coating layer and transmitted to the supporting structure.

The installation is strictly linked to the type of use of the panel depending on which it will be appropriate to adopt the most suitable application method.

For more informations about the uses and the installation, our offices are ready to answer your questions on www.pannellisughero.com



| AVAILABLE PRODUCTS

Granulometry	Bags of granulated cork - 8 bags per m ³
	3/12 mm
	3/5 mm

The Packaging contains bags with a capacity of 125 liters each. 8 bags of blond cork granules are necessary to fill 1 m².

| SPECIFICATION

The granules are made with simply natural blond cork. The material is characterized by the following thermodynamic characteristics: density 200 kg/m³, coefficient of thermal conductivity $\lambda=0,037$ W/mK, specific heat $c=1674$ J/kg K, coefficient of resistance to vapor penetration $\mu=10 \div 13$ and fire resistant class 2, according to Circ. Min. Interno 14/09/1961, n. 91. The granulometries can be 3/12 mm and 3/5 mm.

| CERTIFICATIONS

Cork granules meets the requirements established for the release of the Certificate of Conformity to the criteria of Environmental Compatibility (CCA).

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| ADVANTAGES Corkgranules

The true design challenge is represent by the choice of the installation technology and the initial performance maintenance during time of the dry floor made with Corkgranules. The used blond cork meets precise characteristics:

- extreme elasticity and stability, indispensable for the endurance of internal stresses triggered by the configuration of the layers that make up the flooring system;
- lightness, assured by a low density so as not to overload the structure;
- the properties of sound insulation to dampen impact sound and thermal insulation noise to limit dispersion and rebalance the surface temperature of the floor with that of the air, which may differ by only 2°C;
- the vapor permeability, thanks to which the humidity absorbed by the air (never more than 8-10%) is constantly expelled leaving the product unaltered avoiding thermal imbalances in the environment.

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| TECHNICAL CHARACTERISTICS Corkgranules

Fire class according to EN 13501-1	class 2 self-extinguishing
Declared thermal conductivity λ_D W/(m*K)	0,037
Density kg/m ³	200
Water vapour diffusion resistance factor μ	10 ÷ 13
Specific heat capacity c J/(kg*K)	1.674
Compression strength (kg/cm ²)	25

Free of impurities, to be used for thermal-acoustic insulation, lightening and filling of cavities, dry screeds, attics, etc.

Corkgranules is suitable to be used in:

- flooring systems;
- attics insulations;
- floor, screed, roff insulations;
- flat roof insulations;
- thermo-insulating filling and lightening.