

GRANCORK

Natural cork for thermal and acoustic insulation in under-screed applications

Natural granulate obtained from the cork manufacturing and used for thermal and acoustic insulation of buildings. The product, mixed with *Grancork Binder*, allows the realisation of a light layer with excellent thermo-insulating and sound absorbing properties. The product boasts long-lasting characteristics and the cork cell structure guarantees a high breathability. The granulate has good mechanical strength, it can be used in bio-architecture and in restoration works.

BENEFITS

- 100% natural.
- Excellent insulating product.
- Isolates from footsteps noise and vibrations.
- Improves the acoustic comfort (sound absorbing)
- Breathable.
- Not toxic.
- Ecologic.
- Lighten the floor.
- Easy and quick to apply, it reduces the application time compared to the other traditional mixtures.
- Together with *Grancork Binder*, it can be used to drown the structures.

APPLICATION FIELDS

The product, mixed with *Grancork Binder* (see technical data sheet), is ideal to create thermo-insulating substrates before the application of *Diathonite Screed* (see technical data sheet) or of a traditional screed.

The mixture, once laid out and levelled, it is an elastic material, adaptable to different substrate conditions, and usable even in case of structures.

It can be applied on concrete supports, clay/cement or wood floors, and it guarantees a healthy environment as well as high living comfort.

Furthermore, *Grancork* is completely natural and it is suitable where eco-friendly materials are needed, in green building or in renovation.

Suitable for indoor and outdoor.

YIELD

-*Grancork*:
2.0 kg/m² ± 15% for 1.0 cm of thickness.

Yield of the mixture:
3.0 kg/m² ± 15% for 1.0 cm of thickness.

COLOR

Brown.

PACKAGING

1 m³ (150 kg/ 330.69lb) or 2 m³ (300 kg/ 661.39)
Big bag.

Pallet: 1 big bag.

STORAGE

Store the product in well ventilated areas, away from sunlight, humidity, water and ice, at temperature between +5°C (41°F) and +35°C (95°F).



For application videos, product page, safety data sheet and other information.

Thermal and acoustic insulation - screed

Whereas all indications and recommendations supplied herein are stated to the best of our experience and knowledge, they should be considered as indicative only and should be confirmed by exhaustive practical applications. Diasen doesn't know the peculiarity of the processing, or the characteristics of the support. Therefore the applicator should carry out preliminary tests, in order to verify the suitability to the foreseen application, and in any case he will take the responsibility of the intended use. In case of uncertainties or doubts, please contact the company's technical department, provided that this is only a simple assistance for the applicator: he should have the appropriate capabilities and experience in order to determine the more suitable solution. Always respect the latest update of the technical sheet available on www.diasen.com.

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Technical Data

Features		Unit
Yield of Grancork	2.0 ± 15%	kg/m ²
Weight relationship <i>Grancork – Grancork Binder</i>	2 : 1	-
Colour	brown	-
Grain size	3 – 5 (0.12-0.20)	Mm in
Minimum application thickness of the mixture	1.0 0.39	cm in
Maximum thickness in a coat	3.0 1.18	Cm in
Density of the non compact granulate	100 - 200	kg/m ³
Pot life (T=20°C/ 68°F; R.H. 40%)	20 – 30	Minutes
Drying time (T=20°C/68°F; R.H. 40%)	4 – 5	Hours
Application temperature of the mixture	+5 /+35 +41/+95	°C °F
Packaging	1 m ³ (150 kg/330.69 lb) or 2 m ³ (300 kg/661.38) Big bag	m ³ / kg m ³ / lb

Final performances		Unit	Regulation	Result
Thermal conductivity of the mixture (λ)	0.040 – 0.045	W/mK	UNI EN 12667	-
Specific heat of <i>Grancork</i> (c)	1670	J/kg K	UNI EN 1754	-
	0.39	kcal/kg °C	UNI EN 10456	
Reaction to fire of <i>Grancork</i>	class E	-	UNI EN 13501-1	Cork carbonise without spread flame

The above data even if carried out according to regulated tests are indicative and may change when specific building site conditions vary.

PREPARATION OF SUPPORT

The support must be completely hardened and resistant enough. The surface must be carefully clean, dry, well consolidated and without debris or detaching parts.

Concrete

In case of cracks, crevices, holes or damaged and crumbly concrete, remove the damaged parts and renovate with *Epoifill Kit* (see technical data sheet). In all other cases the product can be directly applied without primer.

Floors of clay-cement

Does not need primer, the application can be directly performed on the support.

Wood

On not treated wood support the mixture can be directly applied.

In case of smooth or treated wood, it is recommended to perform a test in order to verify the adhesion and the potential need of a primer like *Aquabond* (see technical data sheet).

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MIXING

Grancork must be mixed with *Grancork Binder* by hand or by cement mixer. Do not mix with drill mixer.

Add 1 kg of *Grancork Binder* each 2 kg of *Grancork* and mix for 4 - 5 minutes until the complete absorption of *Grancork Binder*. When the cork grains start to glue to each other, the mixture is ready for the application.

Do not dilute and do not add other substances to the mixture.

APPLICATION

1. Do not wet the support before the application of the mixture.
2. Apply the mixture by steel trowel in a homogeneous way, with a thickness from 1 to 3 cm (0.39-1.18in).
3. Level and press to realise a perfectly flat surface.
4. To realise higher thickness is necessary to apply the mixture in more layers. Apply the next layers only when the previous one is dry, by levelling the surface. Each layer must have a minimum thickness of 3.0 cm (1.18in).
5. When the last layer is dry, place *Diathonite Screed*, the traditional screed or apply the trampling insulation system composed of the sound-absorbing carpet *Diafon* + *Diathonite Screed*.

DRYING TIME

At a temperature of 20°C/68°F and 40% of relative humidity, the mixture applied with a thickness of 1 cm (0.39in) dries in 4 – 5 hours.

- Drying time is influenced by environmental relative humidity and by temperature and may significantly change.
- If applied indoor, the place must be as ventilate as possible, both during the application and the drying of the product.

SUGGESTION

- Do not apply with temperature lower than +5°C (+41°F) and higher than +30°C (86°F).
- During summer season apply the product in the cooler hours of the day, away from sunlight.
- Do not apply with imminent threat of rain or frost, in condition of strong fog or with relative humidity level higher than 70%.

CLEANING

Tools can be washed with water before the product hardens. After that, the mixture can only be removed with mechanical cleaning (scraping).

SAFETY

While handling, respect instructions described in safety data sheet of *Grancork Binder*.

Thermal and acoustic
Insulation - screed

