ECORK®

PROJECTED CORK

by kilnher

Sustainable insulation solutions

100% ECO

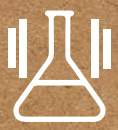
Properties

PROJECTED NATURAL CORK

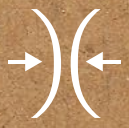
Ecological

Breathable

Waterproof



Stable



Adherent

Continuous

Low thermal conductivity

Elastic

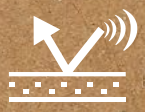
Fireproof

Antioxidant

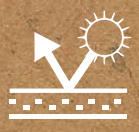
Antibacterial

Saltpeter-resistant

Rot-proof



Acoustic insulation



Thermal insulator

Durable and resistant

Anti-humidity

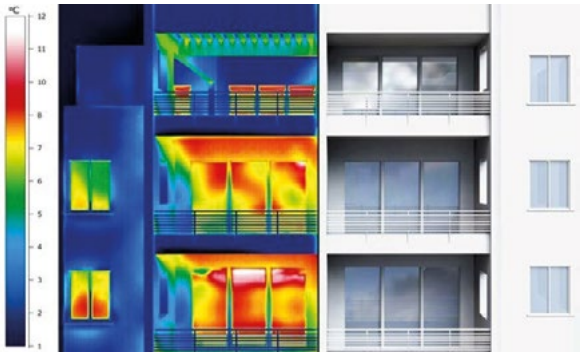
Decorative

Sealant

Asbestos encapsulation

WHAT IS ECORK

Projected natural cork



Ecork is characterized, above all, by its high thermal resistance. It acts by establishing a barrier to the passage of heat between two media that would naturally tend to equalize in temperature.

*Example of thermal conductivities from highest to lowest in W/(K-m):
Aluminum = 237 - Wood = 0.13 - Ecork = 0.075

Thermal insulation is one of its main properties, but it is not the only one. Ecork is a highly demanded coating due to its many advantages.

CHARACTERISTICS AND ADVANTAGES OF ECORK

REGULATES THE TEMPERATURE OF THE HOUSE

By applying Ecork, heat and cold losses inside a house are reduced. Our projected cork saves up to 40% in household energy, since less energy will be needed to cool or heat the house.

BETTER ACOUSTICS

Thanks to its acoustic absorption power, impact noises, noises coming from outside and even airborne noises are reduced. Sound absorption coefficient according to NP EN ISO 354.

ANTI-DAMPNESS

Ecork projected cork is permeable to water vapor, thus preventing condensation, the culprits of the appearance of humidity and mold.

ANTI-CRACKING

Its elasticity allows the absorption of structural stresses, preventing the appearance of micro-cracks.

Multiple and diverse

ECORK APPLICATIONS

The different ECORK sprayed cork emulsions have total adherence on most materials (mortar, metal, wood, PVC, expanded polyethylene, fiber cement, etc.) and are suitable as:

- **A** Protection against humidity and condensation in buildings
- **B** Anti-condensation of sheet metal roofs (dew point)
- **C** Protection and sealing of air conditioning ducts
- **D** Bonding bridge between ceramic and mortar
- **E** Acoustic / reverberation absorber
- **F** Facade coating
- **G** Crack sealing
- **H** Reduction of thermal bridge in columnar foundation
- **I** Thermal protection of tanks and silos
- **J** Cold-heat barrier in industrial metal doors
- **K** Thermal corrector for the preparation of camper vehicles
- **L** Roof rehabilitation
- **M** Waterproofing "Ecork Fine Version": For all types of roofs (asphalt fabric, sheet metal, fiber cement, etc.), providing in the same application a thermal correction and decorative finish
- **N** Adhesion promoter in slippery floors (wood, sheet metal, ceramic)
- **O** Thermal corrector in the manufacture of wooden houses or domes
- **P** Thermal corrector in prefabricated concrete
- **Q** Thermal corrector in the nautical industry

ECORK PRODUCTS

Ecork Natural Projected Cork is presented in 10kg cubes + 1L of Toner. Within our Ecork range you will find 3 different thicknesses: Fine, Classic and Rustic.

All 3 types are available in 26 colors.

ECORK FINE

Granulometry: 0,2 - 0,5 mm
Consumption: 1.6 Kg/m2
Packaging: 10 Kg + 1 L

ECORK CLASSIC

Granulometry: 0,5 - 1 mm
Consumption: 2 Kg/m^2
Packaging: 10 Kg + 1 L

ECORK RUSTIC

Granulometry: 1 - 2 mm
Consumption: 2,5 Kg/m^2
Packaging: 10 Kg + 1 L

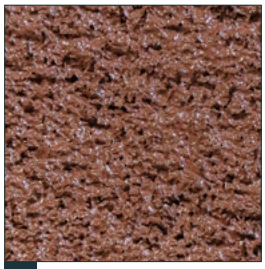
N **Colorless**
CK - 07

B **Tagoro**
CK - 50

B **Avocado**
CK - 30

N **Cereus**
CK - 55

N **Golden Tan**
CK - 08



N **Brownie**
CK - 27

B **Tom**
CK - 51

B **Concreto**
CK - 12

N **Andalucía**
CK - 54

B **Hummus**
CK - 45

B **Marrón Latte**
CK - 35

B **Ceniza**
CK - 17

B **Violet Soul**
CK - 22

N **Magma**
CK - 34

B **Terreta**
CK - 05

B **Peanut**
CK - 14

B **Cloudy**
CK - 16

B **Vintage Blue**
CK - 36

N **Granate Tierra**
CK - 02

B **Cleopatra**
CK - 09

B **Mediterráneo**
CK - 39

B **Rhino**
CK - 13

B **Azure**
CK - 38

N **Texas Red**
CK - 26

B **Vanille**
CK - 15

B **Almendra**
CK - 10

OUR RANGE OF COLORS

B White Base N Neutral Base

B **Blanco**
CK - 21

B **Ibiza MAX**
CK - MAX

ECORK GALLERY

Have a look at some of our projects.

Asbestos Encapsulation

Ecork achieves a **3 to 6 mm of thick film** on the roof, producing a total encapsulation and avoiding the costly demolition and construction of a new roof.

Dampness

They can be avoided thanks to the **79% breathability** of Ecork, which allows the natural evaporation of water and avoids outcrops and humidity odor.

Wagon interior.
Ecork offers an **ecological and unique solution** for various purposes such as thermal and acoustic insulation.

ECORK TUTORIAL

How to apply projected cork

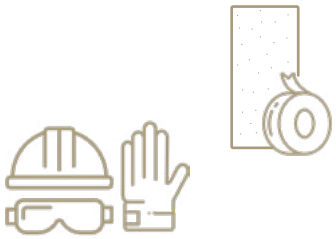
Here we are going to help you to apply the projected cork in the area you want in 7 simple steps.

We also leave you a QR where you will find a short tutorial on YouTube, to clarify any doubts.

Tools

We recommend using a professional mixer (to obtain the most homogeneous mixture), an air compressor and a spray gun with a 5/6mm nozzle diameter.

1



Protect the areas that you are not going to paint and yourselves.

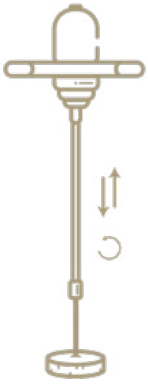
2

Open the 10kg ECORK bucket. Shake the toner well and pour it into the bucket itself.

3

Add a small quantity of water to the toner to remove all traces of pigment and repeat the previous step. (add about 500ml more water depending on the temperature of your area).

4



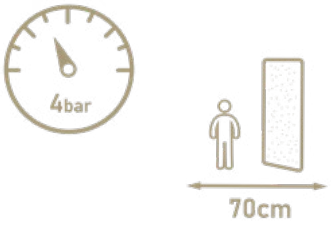
Mix the product well with the help of a professional mixer. Mix it with vertical and circular movements.

Let the mixture rest for 5 min. 

5

Pour the mixture in the container of the gun to start projecting the cork.

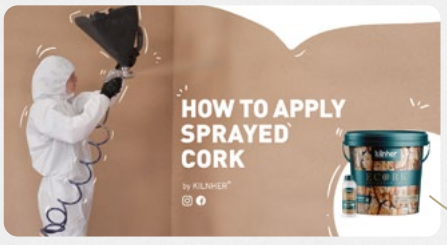
6



Before starting put the compressor to a pressure of 4 bars and place yourselves to 40-70 cm of distance with the zone to cover.

7

Apply 3 layers with the different movements that appear above and in the third one distance yourselves more from the application area.



YouTube

Technical data and tests

CHARACTERISTICS

ZERO VOC

	TESTING REGULATIONS	RESULTS
Specific gravity	EN-ISO 2811-1: 2016	0,5-0,7 g/cm^3
Grain size	EN-ISO 1524 / UNE EN 1062-1	0,5-0,8 mm / S1 Fine
Adhesion resistance by pull-out test	EN-ISO 1524:2000	≥ 1,9 N/mm^2
Thermal conductivity	UNE-EN 12667	0,075 W/m. ºC
Resistance to artificial weathering	EN-ISO 16474-1:2014	No change 3200h
Tensile strength and elongation at break	EN-ISO 527-4	0,36 Mpa
Cross-section	EN-ISO 2409	Gt0
Crack bridging capacity	EN 1062-3:2008	A1 (-20ºC)
Thermal compatibility (freeze-thaw cycles)	EN 13687-5	≥ 0,8 N/mm^2 "No bubbles and cracks"
Impact resistance	EN-ISO 6272-1:2012	W<0,1 Kg./m^2 h0.5
Capillary absorption and water permeability	EN 1062-3:2008	30 minutes At room temperature 20ºC
Water vapor permeability	EN ISO 7783-1(-2)	Sd< 5m Class I
Permeability to CO_2	EN 1062-6	Sd > 50 m
Hazardous substances	EN 16516:2018	Complies with 5,3
Dry to touch (hours)	UNE 48301:1999	4-5
Second coat (hours)	UNE 48301:1999	24
Coverage (m^2/L)	UNE 48282:2017	1,8 - 2 Kg/m^2
Volatile Organic Compounds (VOC)	UNE EN ISO 17895	Complies with 5,3
Sound absorption	EN ISO 354:2004	aw = 0,10

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

gBB Ausschuss zur gesundheitlichen Bewertung von Bauprodukten Committee for Health-related Evaluation of Building Products

EMISSION CLASS FOR BUILDING MATERIAL M1

CE UNE - EN 1504-2

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kilnher group®

C/ Llanterners 44, P. I. La Figuera
46970 Alaquas - Valencia (Spain)

+34 961 50 50 24
kilnher@kilnher.com