ACOUSTICORK

REINVENTING SUSTAINABLE, GREEN AND ACOUSTIC INSULATION.

Reinventing how cork engages the world.

AMORIM
CORK COMPOSITES

THE REINVENTION OF COMFORT AND ENERGY EFFICIENCY

Maximising comfort and energy efficiency with ACOUSTICORK.

Acoustic, antivibratic and thermal insulation are key characteristics when it comes to maximising comfort and achieving greater energy efficiency.

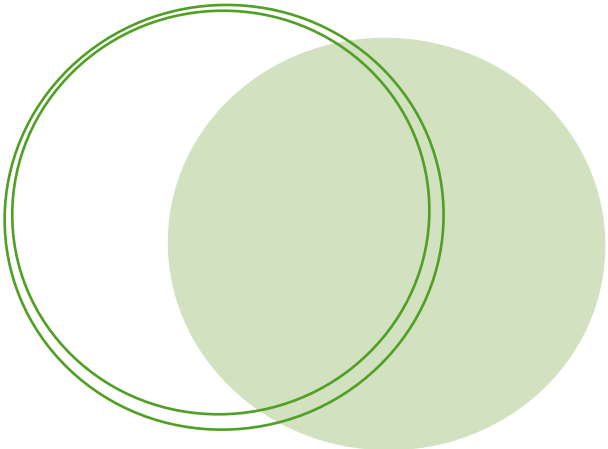
Easy to install, natural, sustainable, with proven technical qualities, ACOUSTICORK solutions are a high performance alternative to synthetic products.

Easy to install solutions providing greater comfort and acoustic efficiency.

These easy to install solutions provide comfort when walking, reduce impact noises and improve thermal insulation.

We develop solutions for different types of final floorings:

- Floating
- Carpets
- Glued Down Wood
- Vinyl/Linoleum
- Ceramic or Natural Stone



The ACOUSTICORK range of products comes in 9 lines:

1. Underlays
2. Underscreeds
3. Heated Floors
4. Batten Supports
5. Waterproof Membrane
6. Masonry Supports
7. Granulated Cork for Mortars
8. Partition Walls
9. Wall and Ceiling Coverings

UNDERLAYS

ACOUSTICORK has solutions for different types of final flooring.

FLOATING

C11	2 mm	FLOATING	20dB	
C11PE*	2 mm	FLOATING	20dB	
C21	2 mm	FLOATING	19dB	
C21PE*	2 mm	FLOATING	19dB	
C31 EPD A+	2,5 mm	FLOATING	20dB	
C31PE*	2,5 mm	FLOATING	20dB	

* Plastic film (low density polyethylene).

CARPETS

C61 EPD A+	5 mm	CARPETS	33dB	

GLUED DOWN WOOD

T11	3 mm	GLUED DOWN WOOD	26dB	
T21	2 mm	GLUED DOWN WOOD	19dB	
T22	3 mm	GLUED DOWN WOOD	20dB	
T31	3 mm	GLUED DOWN WOOD	18dB	

VINYL /LINOLEUM

T51	2 mm	VINYL/LINOLEUM	16dB	

CERAMIC OR NATURAL STONE

T66	3 mm	CERAMIC OR NATURAL STONE	15dB	
T61 CE EPD A+	5 mm	CERAMIC OR NATURAL STONE	16dB	
T93	9,5 mm	CERAMIC OR NATURAL STONE	20dB	

EPD A+

ACOUSTICORK has
A+ classified products
by an EPD assessement
at BRE (London).

REINVENTING SUSTAINABILITY FOR THE FUTURE

We are the 1st company
in the world offering
cork underlays
with CE marking.

UNDERSCREED

Acoustic insulation for screed.

The nature and sustainability of our products grants unique qualities to the areas where they are applied. The technical characteristics of the range of products for underscreed are a proven fact given its superior acoustic performance against impact noise and noise propagation.

SCREED INSULATION

U31	8 mm	SCREED INSULATION	**27**dB	**0,099** m²°K/W	
U32	8 mm	SCREED INSULATION	**21**dB	**0,210** m²°K/W	
U34	8 mm	SCREED INSULATION	**24**dB	**0,057** m²°K/W	
U66	5 mm	SCREED INSULATION	**21**dB	**0,058** m²°K/W	
U68	5 mm	SCREED INSULATION	**19**dB	**0,130** m²°K/W	
U85	5 mm	SCREED INSULATION	**20**dB	**0,110** m²°K/W	
U90	5 mm	SCREED INSULATION	**21**dB	**0,035** m²°K/W	

HEATED FLOORS

Energy-saving insulation solutions.

Energy efficiency is a synonym for savings. The solutions offered with this range of products have been developed to combine thermal resistance with acoustic insulation, thus allowing for even greater savings. Such efficiency can be achieved only through the thermal barrier created between the heating system and the slab, thereby preventing energy from dissipating to the slab.

These solutions allow for greater floor heating, which is the best option for heat transmission, providing greater efficiency and comfort. The hot air rises and, therefore, the perception of heat is faster, heat losses through the walls and ceiling are avoided and, so, we achieve a uniform heating in the whole room.

HEATED FLOORS

H11	5 mm	HEATED FLOORS	**16**dB	**0,125 m²°K/W**	
H12	3 mm	HEATED FLOORS	**9**dB	**0,067 m²°K/W**	

BATTEN SUPPORTS

The solution for acoustic and antivibratic insulation of wooden battens.

These supports are the best solution for impact noise reduction in wooden battens.

Advantages:

- High resistance to compression;
- High acoustic performance due to the low dynamic stiffness;
- Sustainable and recyclable product.

Specifications:

PROPERTIES	VALUE	METHOD
Specific Weight	> 200 (Kg/m^3)	ASTMF 104
Tensile strength	> 400 (KPa)	ASTMF 104
Compression at 10%	>100 PSI	ASTMF 104
Stiffness	> 40 (Shore A)	ASTMF 104
Recovery	> 90 (%)	ASTMF 104
Thermal Conductivity	0,042 (Wm°K)	ASTMF 104
Dynamic Stiffness	67 (MN/m^3)	ISO 9052-1

STANDARD SIZE *	REFERENCE
940x50x8mm	AS01
940x80x8mm	AS02
940x100x8mm	AS03

*** Other sizes available upon request**

WATERPROOF MEMBRANE

REINVENTING SUSTAINABILITY FOR THE FUTURE

63% of our energy consuption comes from biomass.

The solution that ensures full water resistence

This membrane is made of rubber and granulated cork, thus granting unique water resistance characteristics to the floor where it is applied.

Advantages:

- Fully water resistant;
- Low thickness waterproof membrane;
- High tensile strength;
- Lightness;
- High durability;
- 100% recycled and sustainable product.

Specifications:

WATER RESISTANCE	
ASTMF 104	Approved

THERMAL PROPERTIES	
Thermal Conductivity	0,19 W/m°K
Thermal Resistance	0,01 m^2°K/W

SIZE
1m x 10m x 2mm

PHYSICAL AND MECHANICAL PROPERTIES	
Hardness	> 60 (Shore A)
Specific Weight	900kg/m^3
Tensile Strength	1.3 MPa

MASONRY SUPPORT

The solution for acoustic and antivibratic insulation of masonry.

The supports, formed by cork granulated with recycled rubber, are used to decouple the connections of the masonry with the building's structure.

Advantages:

- High resistance to compression;
- Low dynamic stiffness;
- Resistant to contact with water, oils and acids;
- Possibility of using different widths according to the width of most commonly used bricks;
- Sustainable and recyclable product.

Specifications:

PROPERTIES	VALUE	MÉTHOD
Specific Weight	> 400 (Kg/m3)	ASTMF 104
Tensile Strength	> 600 (KPa)	ASTMF 104
Compression at 10%	> 400 PSI	ASTMF 104
Hardness	> 40 (Shore A)	ASTMF 104
Recovery	> 90 (%)	ASTMF 104
Thermal Conductivity	0,087 (WmºK)	ASTMF 104
Dynamic Stiffness	93 (MN/m3)	ISO 9052-1

SIZE*	REFERENCE
940x120x8mm	MS01
940x160x8 mm	MS02
940x320x8 mm	MS03

*** Other sizes available upon request**
**** Sold in 5-unit packs**

PARTITION WALLS

The best solution for acoustic insulation of light dividing walls.

The best solution to reduce noise and antivibratic impact on light plasterboard walls and dry panelling with metallic structures.

Advantages:

- High compression resistence;
- Auto-adhesive (easy and quick installation);
- Other sizes available depending on the standard width of the metal structures;
- Resistant to water, oils and acids;
- Sustainable and recyclable product.

Sizes:

ROLLS
50mmx2mmx15m
70mmx2mmx15m
110mmx2mmx15m

*** Other sizes available upon request**

Adhesive Solution

Applications in doors, walls and ceilings:

WALL AND CEILING INSULATION

The right solution for acoustic and thermal solution of walls and ceilings.

The best option for acoustic and thermal insulation of all types of interior walls and ceilings.

Advantages:

- Increases the sound absorption in the room;
- Increases wall soundproofing;
- Higher product density due to the possibility of adding layers.

Specifications:

SIZE	THICKNESS	REFERENCE
1000x500mm	10mm	WA 100
1000x500mm	13mm	WI 130
ACOUSTIC PERFORMANCE		
a = 0,36 (200Hz)	(ITeCons ACU 238/09)	

REINVENTING SUSTAINABILITY FOR THE FUTURE

Cork is extracted every 9 years without damaging the cork oak.

GRANULATES FOR MORTARS

Mortar with granulated cork solution.

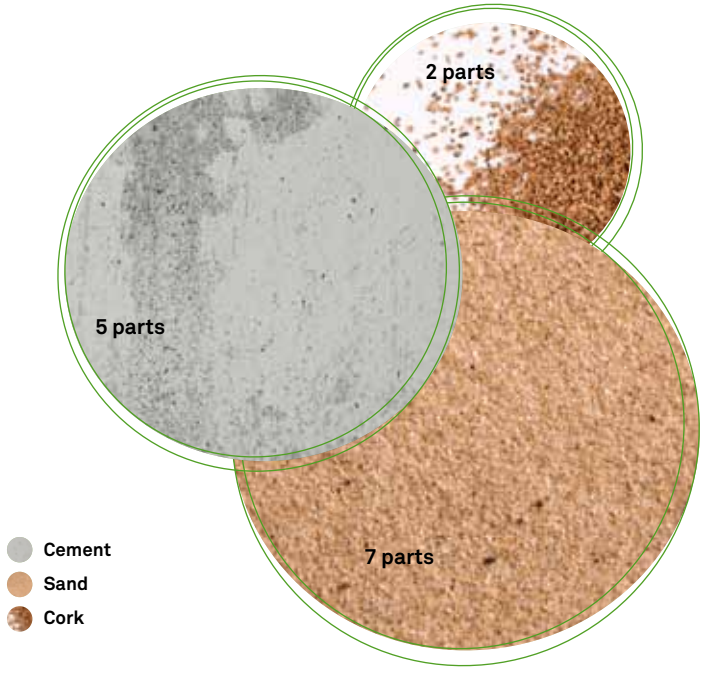
CORKfast is the result of a selection of cork granulates to be used in screeds, making them lighter and with high properties of thermal and acoustic insulation. The use of cork in the formulation of screed provides greater elasticity to the mix, significantly reducing the possible formation of fissures and enabling quick drying. This can be achieved without affecting the necessary homogeneity of the mortar.

The incorporation of granulates in the mortar should be made carefully. The size and density of the cork granulates must meet the project specifications and requires specialist advice.

We generically recommend the following formulation (as per volume):

Advantages:

- Improves thermal insulation.
- Improves acoustic insulation.
- Reduces drying time.
- Prevents the emergence of fissures.
- Good adherence.



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