

Underlay **NATURE** GREEN

UNDERLAY FOR THERMAL AND ACOUSTIC INSULATION

✓ Dimension
1×10 m
✓ Thickness
2/3/4/5 mm

TECHNICAL PROPERTIES



Material Description & Properties

Agglomerated cork underlay for acoustic and thermal insulation.

TECHNICAL DATA

TEST	REQUIREMENT	UNIT	RESULT
Punctual conformability (PC)	≥ 0,5	mm	1,3
Compressive strenght (CS)	≥ 400	kPa	470
Compressive creep (CC)	≥ 35	kPa	100
Impact sound (IS)	≥ 18	dB	19
Reflected walking sound (RW)	S) –	%	TBD
Thermal Resistance (R)*	≤ 0,15	m²°C/W	0,039
Dynamic load (DL)	≥ 100 000	cycles	≥ 100 000

* Suitable for underfloor heating and cooling

KEY FEATURES

- 100% natural, reusable and recyclable.
- Excellent acoustic performance.
- Excellent thermal resistance capacity.
- Flexible and adaptable.
- High durability.
- Tested according to MMFA/EPLF higher requirements groups 1 and 2.

THERMAL INSULATION

Thermal Conductivity (1)	0,0516 W/mK
Thermal Resistance	0,0388 (m²°C/W)

(1) EN 8301

ACOUSTICAL RESULTS

Flooring	Laminate
Thickness (mm)	2
ΔLw (dB) ⁽¹⁾	19

⁽¹⁾ ISO 10140-3 and ISO 717-2

(1) ISO 10140-3 and ISO 717-2

REDUCTION OF IMPACT NOISE



Rating according to ISO 717-2 ΔL_w 19 dB $C_{L\Delta}$ = -11 dB C_{Lr} = 0 dB

Flooring	Glued down wood floor
Thickness (mm)	3
ΔLw (dB) ⁽¹⁾	26

REDUCTION OF IMPACT NOISE



Flooring	Floating wood floor
Thickness (mm)	4
ΔLw (dB) ⁽¹⁾	18

REDUCTION OF IMPACT NOISE



Flooring	Ceramic
Thickness (mm)	5
ΔLw (dB) ⁽¹⁾	16

(1) ISO 10140-3 and ISO 717-2

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REDUCTION OF IMPACT NOISE



 $L_{n,r,0} \quad - \text{Normalized impact sound pressure level of the Lab reference floor.}$

 $L_{nr} \quad$ – Normalized impact sound pressure level of the reference floor with the floor covering under test.

 $\Delta L_w \quad - \text{Impact sound pressure level reduction index of the covering under test,} \\ \text{on a normalized floor.}$

The results are based on test made with an artificial source under laboratory conditions (engineering method).

—— 3 mm



Final floor

Underlay GO4CORK NATURE

Concrete slab with 140 mm thickness

PHYSICAL AND MECHANICAL PROPERTIES





CREEP DEFLECTION @ 100 kPa (% OF START HEIGHT)



Note: Following ISO8013-1998 measured in Cantilever Test System.

APPLICATION SCHEMES

GLUED FLOORS



NON-GLUED FLOORS





Floor covering composed by Laminate or ceramic

04.

02. Adhesive



06.

03.

Vapour barrier

05. Perimeter insulation barrier





GENERAL INSTALLATION INSTRUCTIONS

GENERAL INSTALLATION INSTRUCTIONS (WITH AND WITHOUT GLUE)

The following installation instructions are recommended by Amorim Cork Composites, and are not intended to be a definitive project specification. They should be interpreted and applied taking into account the recommendations of the manufacturers of the flooring to be installed, as well as the manufactures of the glue, should this be necessary.

1. PREPARATION OF THE SUBFLOOR

- The subfloor must be level, dry, clean and in good structural conditions. A floor is considered level if the deviation height is less than 2mm over a distance of 2.5 linear meters. Deviations above this value must be leveled out before underlay installation.
- The humidity content of the concrete substrate must not exceed 2.5 % (MC) by weight. Any moisture problems need to be solved before installation. New concrete slabs need to cure for at least 120 days before installation.
- The environmental conditions during the installation should be: temperature $>10^{\circ}\text{C}$ and humidity <75%

2. INSTALLATION OF THE MOISTURE BARRIER

For floating floors you must first install a moisture barrier across the entire area of the room to minimize the risk of possible damage caused by rising damp, and then install the underlay. The barrier must be installed directly onto the surface of the subfloor, in the opposite direction you plan to install the final floor to reduce seams. This moisture barrier should have a minimum sd-value of 75 m. It should be installed following the outline of the enclosing wall, to a height of at least 30 mm and with a minimum overlap of 100mm using a suitable tape to seal seams. After finishing, the barrier must cover the entire subfloor area without any gaps. Never mechanically secure the barrier with screws, nails or staples as this may compromise its effectiveness.

3. INSTALLATION OF THE UNDERLAY

Place one roll of the underlay parallel to the wall and in the opposite direction you plan to install the final floor to reduce seams. Cut the underlay material roll to the desired length and install it directly, covering the entire surface of the room. The underlay must cover the entire area without any gaps, and be securely joined using duct tape. Never mechanically secure the underlay with screws, nails or staples as this may compromise its effectiveness. Install the flooring perpendicularly to the underlay. Always follow the flooring manufacturer's recommended installation instructions.

4. GLUED DOWN INSTALLATION

Before installing the underlay, apply the glue and make sure that the surface has been treated to prevent moisture. the installation of a moisture barrier is not necessary. After applying the glue, cut the underlay material roll to the desired length and install it directly, covering the entire surface. The underlay must cover the entire area without any gaps, and be securely joined using duct tape. Never mechanically secure the underlay with screws, nails or staples as this may compromise its effectiveness. Apply glue on the underlay and install the flooring perpendicularly to the underlay. Always follow the flooring manufacturer's recommended installation instructions.

APPLICATION PROCESS

GLUED DOWN INSTALLATION



1. Installation of perimeter barrier; 2. Installation of underlay (glued); 3. Installation of final flooring (glued); 4. Cutting perimeter barrier.

FLOATING INSTALLATION



1. Installation of the moisture barrier; 2. Installation of the tape on the seams ; 3. Installation of perimeter barrier; 4. Installation of underlay; 5. Installation of the tape on joints between rolls; 6. Installation of final flooring; 7. Cutting perimeter barrier.



The data provided in this Material Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper product may result in either equipments damage or personal injury. Rease contact Amorim Cork Composites regarding specific application recommendations. Amorim Cork Composites expressly discialmis all warranties, including any implied waranties or merchantability or of fitness for a particular purpose. Amorim Cork Composites is not liable for any indirect specific, incidental, consequential, or punitive damages as a result of using the information listed in this MDS. Any of its material specification sheets, its products or any future use or re-use of them by any person or entity. For contractual purpose, please request our Product Specifications Sheet (PDA).

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