

UNDERLAY FUSION

AMORIM
CORK
COMPOSITES



Recycled and sustainable accessories for flooring systems

Cork is a common denominator in the production of our accessories and supporting materials for floorings, such as, underlayment. When applied beneath a floor, an underlayment provides more comfort, protection and longevity to the final floor, guaranteeing even greater energy efficiency and acoustic insulation.

Underlayment may consist only of cork agglomerate or contain other recycled materials, such as PU, Recycled Rubber or EVA.

Compared to synthetic materials, cork is the right choice when looking for a solution that guarantees performance but is also sustainable from an environmental point of view.

TYPE OF FLOOR	RECOMMENDED UNDERLAY	MAIN FEATURE
Laminate	Fusion	<ul style="list-style-type: none"> ➤ Endurance ➤ Excellent compensation for uneven floors ➤ Good acoustic and thermal insulation ➤ Good load absorption capacity ➤ Anti-slip underlay ➤ Suitable for heated floors



Thermal resistance



Reduction of impact noise



Reduction of footfall noise



Compensates for uneven floor



Protection from damage from falling objects



Load resistance



Antislip

Negative carbon balance

Underlay Fusion 5166 has a negative carbon balance of $-14,2 \text{ kg CO}_2/\text{m}^2$, when considering the CO_2 sequestration of the cork oak forest and the CO_2 emissions associated with the industrial process.

- Has a carbon footprint **20x lower** than a standard synthetic foam underlay.
- Requires **20x less resources' consumption** than a standard synthetic foam underlay.



* According to EY Underlay 5166 Footprint Analysis, 2020

FUSION

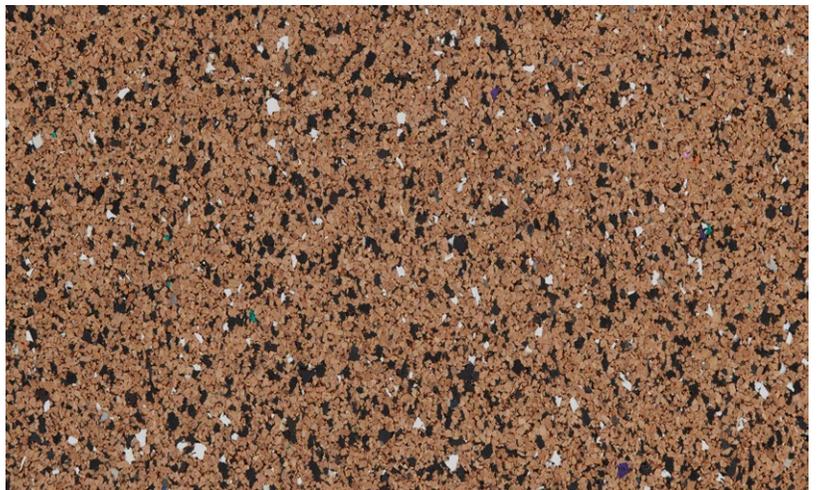
Density	200–280 Kg/m ³
Tensile Strength	≥ 200 kPa
Thickness	2 mm
Acoustic Performance	
Impact Sound (IS)	20 dB
Thermal Performance	
Thermal Resistance (TR)	0.033 (m ² .°C/W)
Floor Durability	
Punctual Conformability (PC)	> 1.2 mm
Compressive Strength (CS)	500 kPa
Compressive Creep (CC)	> 50 kPa
Dynamic Load (DL)	≥ 100 000



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Dynamic Load (DL)	≥ 100 000
Water Vapour Resistance (SD)	≥ 145 m



The **Cork Inside** seal guarantees that this product contains, in its cork formulation, a 100% natural and recyclable material with unique technical properties.

Cork Inside formulations combine cork with other materials and are developed and rigorously tested by Amorim Cork Composites' innovation and engineering teams. **Cork Inside** responds to stringent requirements and guarantees the performance required for its application.

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



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