Cork comes from the bark of the cork oak tree (Quercus Suber L). It is a plant tissue, 100% natural, which covers the trunk and branches. One cubic centimeter of cork contains about 40 million cells. Cork is known as “nature’s foam” due to its alveolar structure.

Cork is sustainably harvested by specialized professionals without damaging the trunk. The cork oak tree re-grows the outer bark layer and is harvested every 9 years. Over the course of its lifetime, which lasts about 200 years, cork is a natural material which is both renewable and recyclable.

Cork, shaping the future through sustainability
Amorim Cork Composites - a Corticeira Amorim company - was founded in 1963 to add value to cork not used in the cork stoppers industry and to cork stoppers at the end of their life.

Since then, in the framework of our innovation culture, we have discovered and identified other materials from other industries (industrial symbiosis) to blend with cork and leverage its attributes.

For this purpose, we use different materials from the footwear, automotive and packaging industries. We give a new life to materials that otherwise would be wasted.

So, together, we:
- Reduce waste
- Give a new life to products
- Take care of the planet
Cork is a common denominator in the production of our accessories and supporting materials for floorings, such as, underlayment. When applied under 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.

### Underlays

**Recycled and sustainable accessories for flooring systems**

<table>
<thead>
<tr>
<th>TYPE OF FLOOR</th>
<th>RECOMMENDED UNDERLAY</th>
<th>MAIN FEATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laminate</td>
<td>Nature</td>
<td>- Green</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100% cork, 100% natural. Ecological, sustainable and recyclable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High durability anti-slip underlay. Suitable for heated floors.</td>
</tr>
<tr>
<td></td>
<td>Nature Vapour Barrier</td>
<td>2 in 1 solution: Pre-attached vapour barrier for moisture protection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Recommended for floating installations.</td>
</tr>
<tr>
<td></td>
<td>Plus Vapour Barrier</td>
<td>2 in 1 solution: Pre-attached vapour barrier for moisture protection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Recommended for floating installations.</td>
</tr>
<tr>
<td>Vinyl</td>
<td>Unique Vapour Barrier</td>
<td>- Vinyl</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Helps to protect LVT flooring from damage to the click-system joints.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maximize the service level of the joining system connecting the laminate boards.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anti-slip underlay with long-term physical properties and excellent load absorption capacity.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Excellent for heated floors.</td>
</tr>
<tr>
<td>Ceramic</td>
<td>LC+ Compensate Vapour Barrier</td>
<td>2 in 1 solution: Pre-attached vapour barrier for moisture protection.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Recommended for floating installations.</td>
</tr>
<tr>
<td>Wood</td>
<td>Profile Thermal Vapour Barrier</td>
<td>- Thermal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anti-slip underlay with excellent thermal performance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High comfort when walking because of the profile format.</td>
</tr>
</tbody>
</table>

![Icons](image-url)
### NATURE

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Density</strong></td>
<td>220–280 Kg/m³</td>
</tr>
<tr>
<td><strong>Tensile Strength</strong></td>
<td>≥ 200 kPa</td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>2 mm</td>
</tr>
<tr>
<td><strong>Acoustic Performance</strong></td>
<td><strong>Impact Sound (IS)¹</strong></td>
</tr>
<tr>
<td><strong>Thermal Performance</strong></td>
<td><strong>Thermal Resistance (TR)</strong></td>
</tr>
<tr>
<td><strong>Floor Durability</strong></td>
<td></td>
</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 1.3 mm</td>
</tr>
<tr>
<td>Compressive Strength (CS)</td>
<td>≥ 470 kPa</td>
</tr>
<tr>
<td>Compressive Creep (CC)</td>
<td>&gt; 50 kPa</td>
</tr>
<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 100 000</td>
</tr>
</tbody>
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### PLUS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td><strong>Density</strong></td>
<td>250–300 Kg/m³</td>
</tr>
<tr>
<td><strong>Tensile Strength</strong></td>
<td>≥ 200 kPa</td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>2 mm</td>
</tr>
<tr>
<td><strong>Acoustic Performance</strong></td>
<td><strong>Impact Sound (IS)¹</strong></td>
</tr>
<tr>
<td><strong>Thermal Performance</strong></td>
<td><strong>Thermal Resistance (TR)</strong></td>
</tr>
<tr>
<td><strong>Floor Durability</strong></td>
<td></td>
</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 1.3 mm</td>
</tr>
<tr>
<td>Compressive Strength (CS)</td>
<td>≥ 320 kPa</td>
</tr>
<tr>
<td>Compressive Creep (CC)</td>
<td>&gt; 50 kPa</td>
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<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 10 000</td>
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### UNIQUE

<table>
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<td><strong>Density</strong></td>
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<td><strong>Tensile Strength</strong></td>
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<tr>
<td><strong>Thickness</strong></td>
<td>1.6 mm</td>
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<tr>
<td><strong>Acoustic Performance</strong></td>
<td><strong>Impact Sound (IS)²</strong></td>
</tr>
<tr>
<td><strong>Thermal Performance</strong></td>
<td><strong>Thermal Resistance (TR)</strong></td>
</tr>
<tr>
<td><strong>Floor Durability</strong></td>
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</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 1 mm</td>
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<tr>
<td>Compressive Strength (CS)</td>
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<tr>
<td>Compressive Creep (CC)</td>
<td>&gt; 50 kPa</td>
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<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 100 000</td>
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</tbody>
</table>
### NEW PRODUCTS

#### NATURE VAPOUR BARRIER*

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Density</td>
<td>220–280 Kg/m³</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>≥ 450 kPa</td>
</tr>
<tr>
<td>Thickness</td>
<td>2 mm</td>
</tr>
<tr>
<td>Acoustic Performance</td>
<td>Impact Sound (IS) ¹</td>
</tr>
<tr>
<td>Acoustic Performance</td>
<td>19 dB</td>
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<tr>
<td>Thermal Performance</td>
<td></td>
</tr>
<tr>
<td>Thermal Resistance (TR)</td>
<td>0.039 (m². °C/W)</td>
</tr>
<tr>
<td>Floor Durability</td>
<td></td>
</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 1.3 mm</td>
</tr>
<tr>
<td>Compressive Strength (CS)</td>
<td>≥ 470 kPa</td>
</tr>
<tr>
<td>Compressive Creep (CC)</td>
<td>&gt; 50 kPa</td>
</tr>
<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 100 000</td>
</tr>
<tr>
<td>Water Vapour Resistance (SD)</td>
<td>150 m</td>
</tr>
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#### PLUS VAPOUR BARRIER*

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>250–300 Kg/m³</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>≥ 450 kPa</td>
</tr>
<tr>
<td>Thickness</td>
<td>2 mm</td>
</tr>
<tr>
<td>Acoustic Performance</td>
<td>Impact Sound (IS) ¹</td>
</tr>
<tr>
<td>Acoustic Performance</td>
<td>20 dB</td>
</tr>
<tr>
<td>Thermal Performance</td>
<td></td>
</tr>
<tr>
<td>Thermal Resistance (TR)</td>
<td>0.031 (m². °C/W)</td>
</tr>
<tr>
<td>Floor Durability</td>
<td></td>
</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 1.3 mm</td>
</tr>
<tr>
<td>Compressive Strength (CS)</td>
<td>≥ 320 kPa</td>
</tr>
<tr>
<td>Compressive Creep (CC)</td>
<td>&gt; 50 kPa</td>
</tr>
<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 10 000</td>
</tr>
<tr>
<td>Water Vapour Resistance (SD)</td>
<td>145 m</td>
</tr>
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</table>

#### CYCLE VAPOUR BARRIER*

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>300–400 Kg/m³</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>≥ 600 kPa</td>
</tr>
<tr>
<td>Thickness</td>
<td>1.6 mm</td>
</tr>
<tr>
<td>Acoustic Performance</td>
<td>Impact Sound (IS) ²</td>
</tr>
<tr>
<td>Acoustic Performance</td>
<td>18 dB</td>
</tr>
<tr>
<td>Thermal Performance</td>
<td></td>
</tr>
<tr>
<td>Thermal Resistance (TR)</td>
<td>0.015 (m². °C/W)</td>
</tr>
<tr>
<td>Floor Durability</td>
<td></td>
</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 0.5 mm</td>
</tr>
<tr>
<td>Compressive Strength (CS)</td>
<td>≥ 400 kPa</td>
</tr>
<tr>
<td>Compressive Creep (CC)</td>
<td>&gt; 50 kPa</td>
</tr>
<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 100 000</td>
</tr>
<tr>
<td>Water Vapour Resistance (SD)</td>
<td>145 m</td>
</tr>
<tr>
<td>PROFILE</td>
<td>LC+</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>150–200 Kg/m³</td>
</tr>
<tr>
<td><strong>Tensile Strength</strong></td>
<td>≥ 200 kPa</td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>2.5 mm</td>
</tr>
<tr>
<td><strong>Acoustic Performance</strong></td>
<td></td>
</tr>
<tr>
<td>Impact Sound (IS)³</td>
<td>20 dB</td>
</tr>
<tr>
<td><strong>Thermal Performance</strong></td>
<td></td>
</tr>
<tr>
<td>Thermal Resistance (TR)</td>
<td>0.066 (m².°C/W)</td>
</tr>
<tr>
<td><strong>Floor Durability</strong></td>
<td></td>
</tr>
<tr>
<td>Punctual Conformability (PC)</td>
<td>≥ 0.5 mm</td>
</tr>
<tr>
<td>Compressive Strength (CS)</td>
<td>≥ 160 kPa</td>
</tr>
<tr>
<td>Compressive Creep (CC)</td>
<td>&gt; 50 kPa</td>
</tr>
<tr>
<td>Dynamic Load (DL)</td>
<td>≥ 100 000</td>
</tr>
</tbody>
</table>

| **Density**             | 560–650 Kg/m³        |
| **Tensile Strength**    | ≥ 500 kPa            |
| **Thickness**           | 2 mm                 |
| **Acoustic Performance**|                      |
| Impact Sound (IS)⁴      | 18 dB                |
| **Thermal Performance** |                      |
| Thermal Resistance (TR) | 0.016 (m².°C/W)      |
| **Floor Durability**    |                      |
| Punctual Conformability (PC) | ≥ 1.7 mm  |
| Compressive Strength (CS) | ≥ 700 kPa         |
| Compressive Creep (CC)  | > 50 kPa             |
| Dynamic Load (DL)       | ≥ 100 000            |

* Recommended for floating installations
1 Tested under a laminate floor
2 Tested under a vinyl floor
3 Tested under a wood floor
4 Tested under a ceramic floor

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.