

# Bringing nature back into play





# Corkeen is the revolutionary surfacing system for playgrounds made from natural cork

Developed and produced by Amorim, the world leader of the cork industry, Corkeen combines unparalleled sustainability credentials, safety, and accessibility in a single solution.

Made from cork, a 100% organic material, Corkeen is the eco-friendly, sustainable solution the world of playgrounds was waiting for.



**Corkeen**<sup>®</sup>  
by Amorim



Bringing nature back into play  
through Cork

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## Cork, a gift from Nature

Cork is the bark of the cork oak tree (*Quercus Suber* L). It is a plant tissue, which covers the trunk and branches.

Cork is an exceptional, 100% natural, organic raw material with incredible characteristics that gives it unrivalled character and makes it valuable in several industries and multiple applications.





Bringing nature back into play  
through Cork

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# Cork is sustainable harvest without felling the tree

The cork oak tree re-grows the outer bark layer and it can be stripped 15-18 times throughout its life.

## 9 years

The period of time between each cork oak harvesting.

## 25 years

The average time before the cork oak is harvested for the first time.

## 200 years

The average life expectancy of a cork oak.

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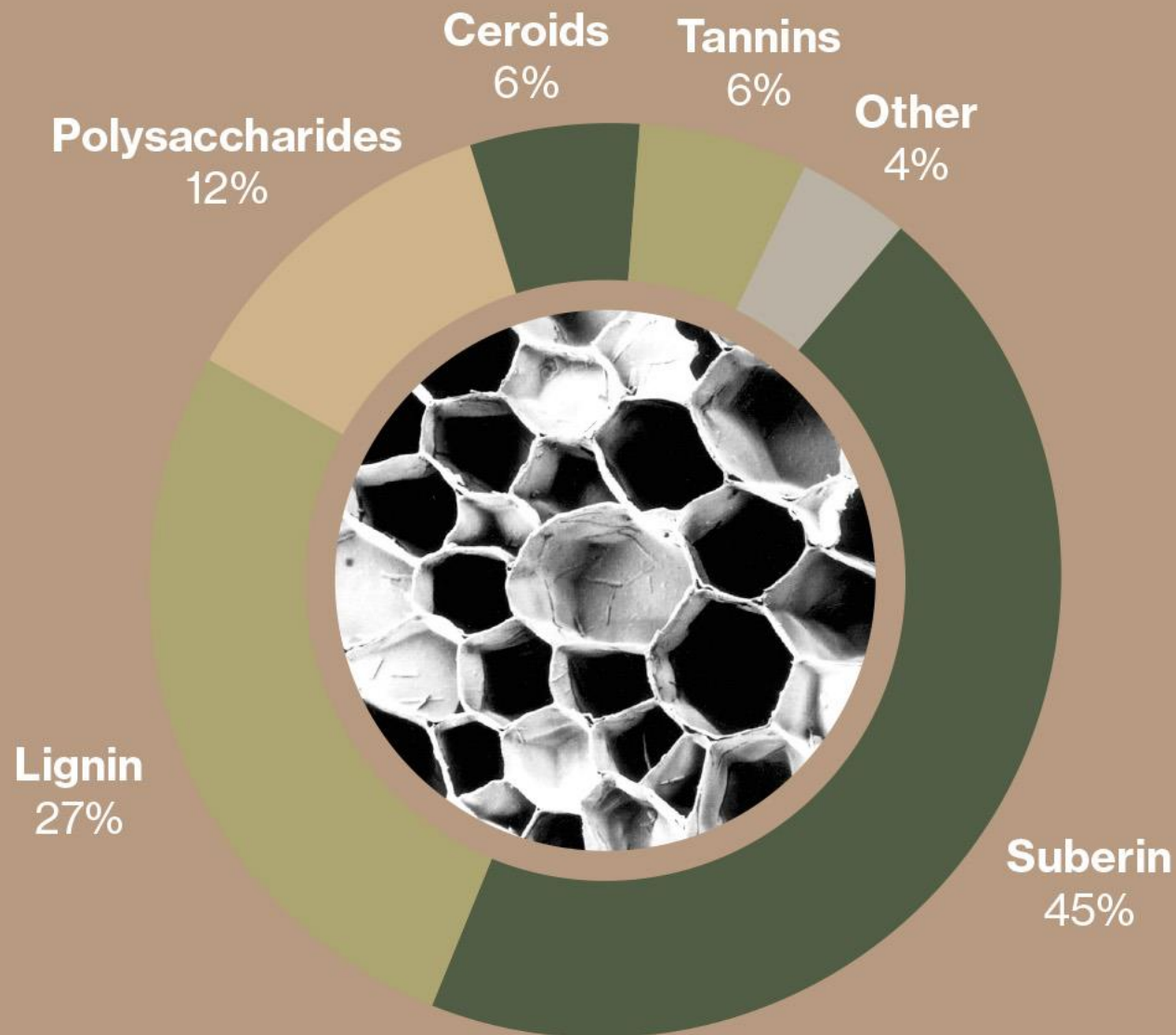
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through Cork

## Chemical composition of cork

Cork consists of a hive-like structure of microscopic cells filled with a gas similar to air and mostly coated with suberin and lignin.

The high gaseous content of each cell is responsible for cork's extraordinary lightness. The association of these cells, as if they were a kind of small aggregate cushions, is responsible for the compressibility and elasticity.

One single cubic centimeter of cork contains about 40 million cells. Cork is known as "nature's foam" due to its alveolar structure.





Bringing nature back into play  
through Cork

# Cork's main features

Acoustic insulation



Hypoallergenic



Thermal insulation



Lightness and buoyancy



Impermeability to liquids and gases



Elasticity and compressibility



Resistance to fire and high temperatures



Soft touch



High co-efficient of friction



100% natural, reusable and recyclable





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through Cork

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## The cork oak: an extraordinary tree

The Montado (cork oak forest) is the basis of a biodiversity-generating ecosystem where the roots of the future are planted.

### Benefits of the cork oak

- Absorbs and stores carbon dioxide over very long periods of time
- Fights climate change
- Generates high levels of biodiversity
- Prevents soil degradation
- Regulates the hydrological cycle
- Fights desertification





Bringing nature back into play  
through Leadership

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# Corkeen is produced by Amorim, the cork industry leader

Amorim holds a worldwide leadership position in five main areas: raw materials, cork stoppers, composites, flooring and wall coverings, and insulation.

With 150 years of history, Amorim has made an unparalleled investment in research, innovation, and design, developing a portfolio of products and solutions with high added value that anticipates market trends and exceeds the expectations of some of the most demanding industries worldwide.

1870  
AMORIM  
2020





## Amorim: Turnover by Business Unit (2019)



**Raw materials**  
204.8 M€



**Cork stoppers**  
559.1 M€



**Floor and wall coverings**  
108.6 M€



**Cork composites**  
104.5 M€



**Insulation cork**  
14.2 M€





Bringing nature back into play  
through Leadership

- Geographic location
-  Industrial plants
-  Cork raw material preparation plants

AMORIM

 **19** INDUSTRIAL PLANTS  
CORK SOLUTIONS

 **10** INDUSTRIAL PLANTS  
RAW MATERIALS

**51** DISTRIBUTION COMPANIES | **10** JOINT VENTURES

**27000**  CLIENTS





Bringing nature back into play  
through Innovation

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# Innovation as a driver of competitiveness

Amorim is constantly challenging the infinite potential of cork, developing innovative solutions in strategic areas where the characteristics of cork are highly valued, such as the aerospace and automotive industries, panels and composites, seals and gaskets, power industry, construction, sports surfaces, flooring, consumer goods, furnishing, and footwear.

Similarly, Corkeen stands out as an example of an innovative revolution in playground systems, pioneering through the use of cork in this kind of application.





Bringing nature back into play  
through Circular Economy

## Corkeen is made following the principles of circular economy

We give materials a new life by creating new products while taking care of the planet.

To produce Corkeen, we guarantee full utilization of harvested material, ensuring that, just as in Nature nothing is lost and everything is transformed.

Even the smallest cork granules are used as a valuable energy source.

Over 60% of our energy needs are met through the use of biomass (cork dust), which is a CO<sub>2</sub> neutral source of energy.

Raw materials / Industrial symbiosis





Bringing nature back into play  
through Purpose

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# Our mission: Creating safe and sustainable spaces for play, and recreation for everyone

In commercial and public spaces (schools, parks,...), Corkeen is a playground with a purpose, since the future is now.

Our children deserve a better, safer and healthier planet. This starts with a better, safer and healthier way to play. In tune with nature, creating communities and respecting the planet.





Bringing nature back into play  
through Purpose

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## Parents are happy when their children are playing in a safe way

While the world needs greener spaces and healthier environments, the majority of playground surfacing systems only partially respond to the challenge, since they focus on environmental sustainability but fail to address accessibility.

The market is calling for cleaner, more environmental-conscious solutions that are also accessible to all. That's where Corkeen by Amorim comes in.





Bringing nature back into play  
through Purpose

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# Unparalleled credentials in a single solution

Corkeen is an innovative solution that combines safety, accessibility, and sustainability, meeting the most demanding requirements of any project.

Installed by certified companies, Corkeen has been designed with children's safety as the top priority, complying with stringent safety standards.







Bringing nature back into play  
through Purpose

## The three S's: safe, stable and sustainable

### Safe

Produced by Amorim, the world leader of the cork industry in compliance with the strictest safety standards, offering state-of-the-art technical performance and maximum safety for children.

### Stable

Since Corkeen is in a bound form, the fall protection is permanent. It does not move, nor is blown away but remains in place and protects — year after year. Unlike playgrounds with loose-fill surfaces such as sand, bark and wood chips, Corkeen is also fully accessible, even with a wheelchair or other mobility aids.

### Sustainable

It's made of cork, a 100% natural, recyclable and renewable material with negative CO<sub>2</sub> emissions. Completely free of all types of toxins and chemicals. The kind of material we all want our children to play on.





Bringing nature back into play  
through Performance

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## Why Corkeen?

**Lower surface temperatures**

**High impact absorption**

**High elasticity**

**Odorless**

**Sustainable and eco-friendly**

**Excellent drainage capacity**

**Decay resistant**

**Lightweight**

**Free of chemical contamination**

**Easy maintenance**

**Fire-retardant**

**Weatherproof**

**Hypoallergenic**

**Resists indentations**





Bringing nature back into play  
through Performance

## Retained fall protection

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With Corkeen the fall protection is permanent. It does not move, nor is blown away but remains in place and protects, year after year.

Corkeen has two cork layers, a flexible base layer, and a firm top layer. This means that the coating will maintain its characteristics even after years of use, protecting against falls.





Bringing nature back into play  
through Performance

## Fully accessible

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Corkeen means that children play on stable ground, accessible to all. Unlike playgrounds with loose-fill surfaces such as sand, bark and wood chips, Corkeen is fully accessible, even with a wheelchair or other mobility aids.





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through Performance



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## Under the sun

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Because cork is a natural insulator, Corkeen could lower surface temperature by more than 20% compared to other playground surfacing materials. Children can walk barefoot on its smooth surface.





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through Performance

## Free from harmful substances

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The surface is based on pure cork  
from nature. Completely free of  
all types of toxins and chemicals  
(heavy metals, EDC's, T-VOC's,  
formaldehyde or PAHs).





An underwater photograph of a coral reef. In the foreground, a clear plastic bag is floating and partially covering the coral. The background shows a healthy reef with various coral species and many small blue fish swimming in the clear blue water.

Bringing nature back into play  
through Performance

## Corkeen preserves our ecosystems

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Many of today's fall protection materials contain plastic and rubber granules that end up in nature. Corkeen is made of cork, which reduces the spread of microplastics.





Bringing nature back into play  
through Performance

## Let it rain

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Corkeen system has excellent  
drainage capacity. Even after  
rainfall, children can play again!





Bringing nature back into play  
through strong Partnerships

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# Corkeen Brand Masters

Our business model is based on partnerships with our Corkeen Brand Masters, who represent the brand and its exclusive system.

Corkeen Brand Masters are companies with recognized experience in the installation of playgrounds which are certified by Corkeen to install and train other installers of Corkeen system, within their geographic territory.





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# Thank you!