



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 has been waiting for.



Bringing nature back into play through Cork

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 give it unrivalled character and make it valuable in several industries and multiple applications.





Bringing nature back into play through Cork

Cork is sustainably harvested 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.

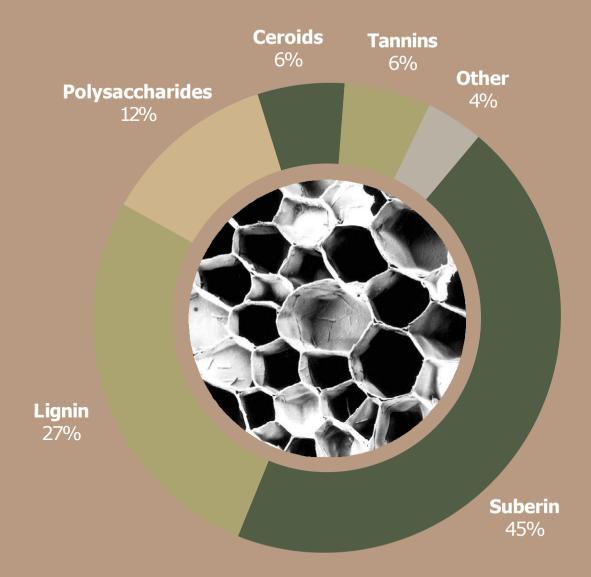


Chemical composition of cork

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 tiny aggregate cushions, is responsible for cork's 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 and anti-vibration insulation



Lightness and buoyancy



Thermal insulation



Elastic, compressible and resilient



Impermeability to liquids and gases



Soft touch



Resistance to fire and high temperatures



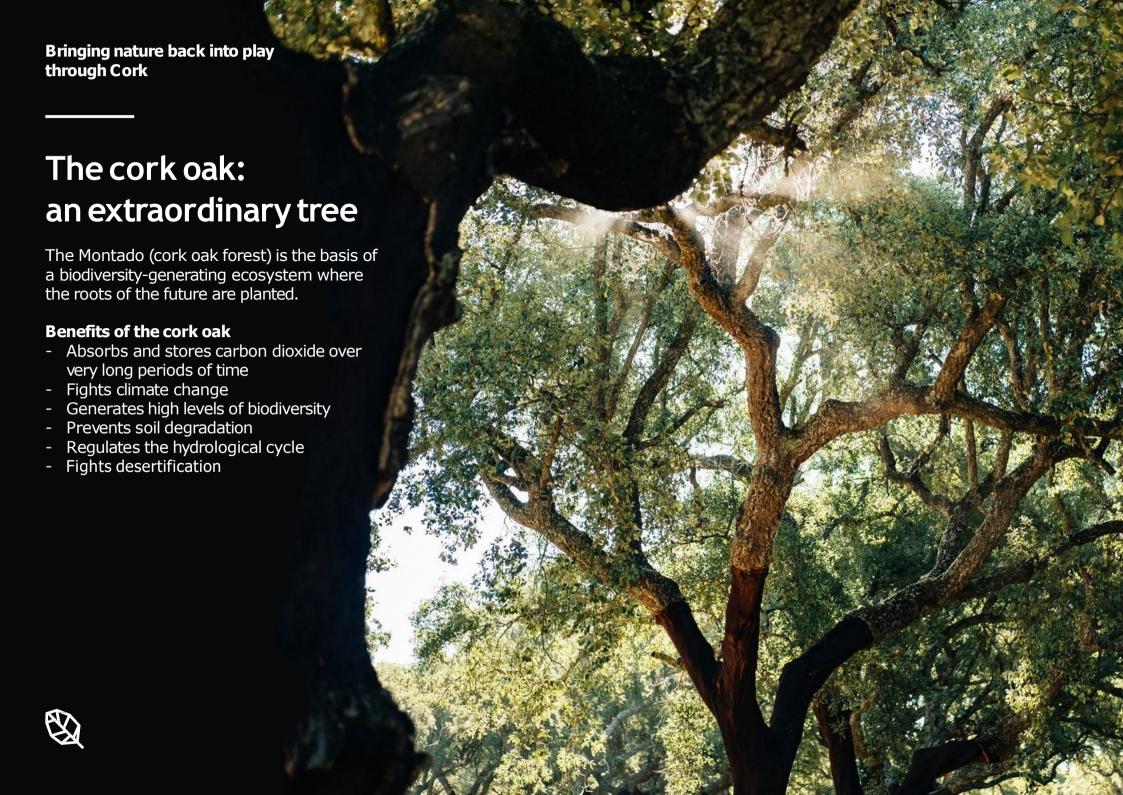
100%natural, reusable and recyclable



Resistance to friction





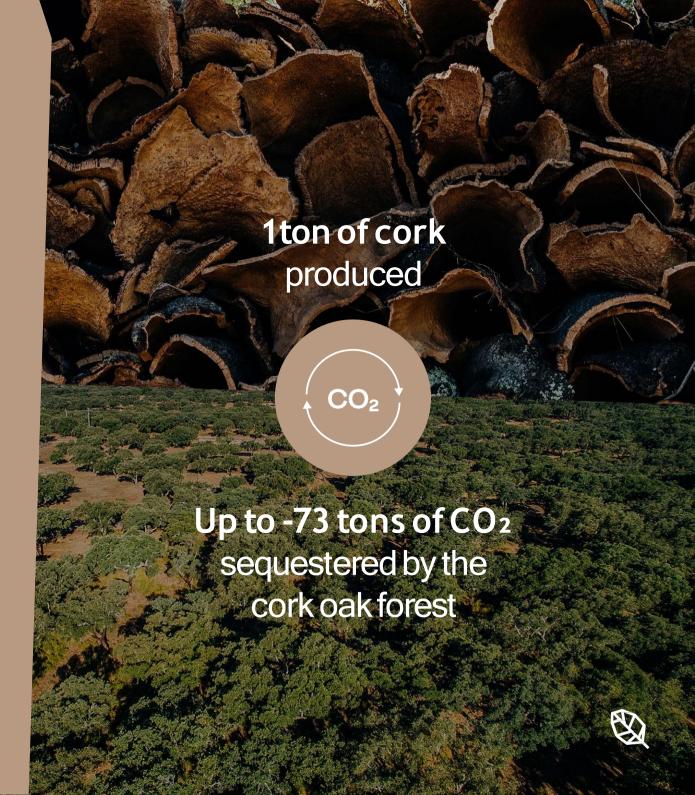


Bringing nature back into play through Cork

Cork oak forest, a positive contribution for climate regulation

The cork oak forest provides an essential contribution to the air that we breathe, by absorbing carbon dioxide.

It is estimated that per each ton of cork produced, the cork oak forest can sequester up to 73 tons of CO₂.*



^{*} Source: https://www.apcor.pt/wp-content/uploads/2015/10/Brochura_Ambiente__EN.pdf

Bringing nature back into play through Leadership

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 more than 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.





Amorim: Business Units



Raw materials



Cork stoppers



Floor and wall coverings



Cork composites



Insulation cork







10 INDUSTRIAL PLANTS

INDUSTRIAL PLANTS
CORK SOLUTIONS

63 DISTRIBUTION COMPANIES

8 JOINT VENTURES

Bringing nature back into play through Innovation

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, the power industry, construction, sports surfaces, flooring, consumer goods, furnishing, and footwear.

Similarly, Corkeen stands out as an example of an innovative revolution in fall protection systems for playgrounds, pioneering the use of cork in this type of application.



Corkeen is made according to 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 CO2 neutral source of energy.





Bringing nature back into play through Purpose

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.

Corkeen is the revolutionary surfacing system for playgrounds that brings nature into contemporary playgrounds and a breath of fresh air to the way we play.

A new sense of communion, positivity and hope for the future.



Bringing nature back into play through Purpose

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 environmentally conscious solutions that are also accessible to all. That's where Corkeen by Amorim comes in.





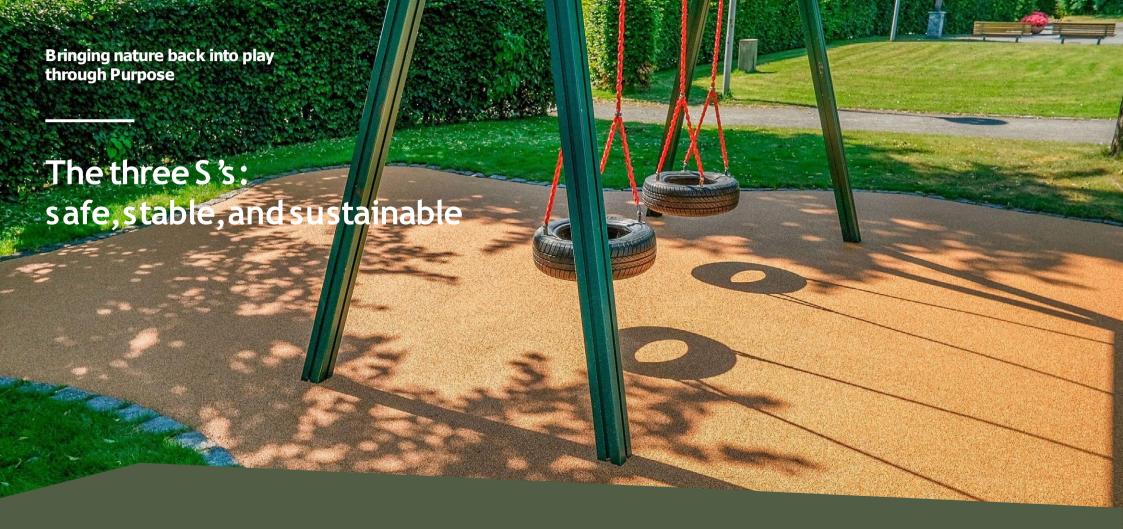
Bringing nature back into play through Purpose

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.





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, fall protection is permanent. It does not move, nor is it blown away, but it 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 CO₂ emissions. Completely free of all types of toxins and chemicals. The kind of material we all want our children to play on.



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

Fully accessible, even with a wheelchair or other mobility aids



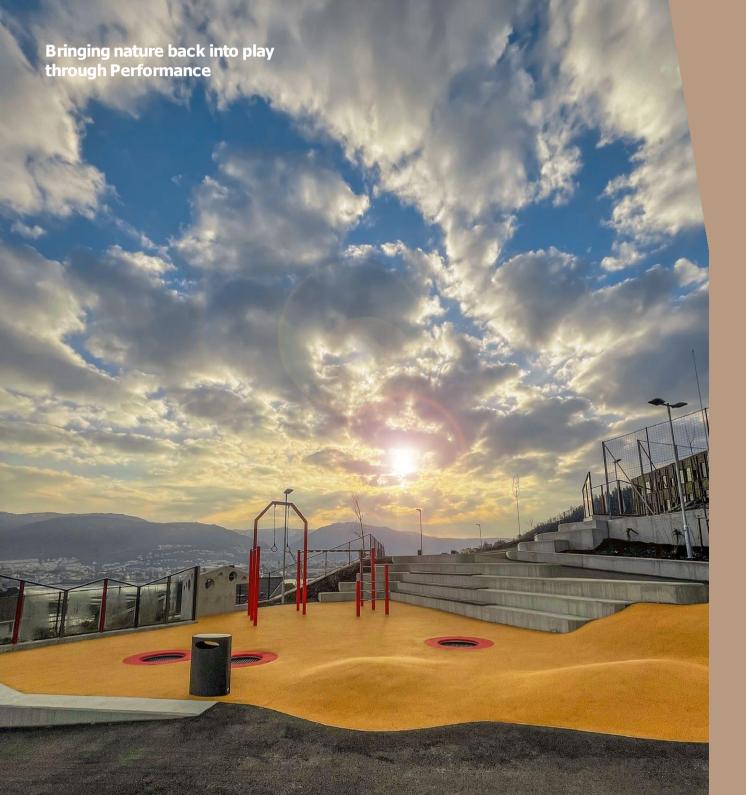
Bringing nature back into play through Performance

Fully accessible

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.







Retained fall protection

With Corkeen, fall protection is permanent. It does not move, nor is it blown away, but it 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

Free from harmful substances

The surface is based on pure, natural cork. Completely free of all types of toxins and chemicals (heavy metals, EDCs, T-VOCs, formaldehyde or PAHs).







Under the sun

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.



Bringing nature back into play through Performance

Corkeen preserves our ecosystems

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.







Letitrain

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



Bringing nature back into play through Performance

Corkeen Play Original

Applications: playgrounds & multipurpose fields

Installed in situ as a two-layer system (shock absorbing base layer + wear resistant top layer)

Complies with EN1176 and EN1177

5-year warranty

Patented





Bringing nature back into play through Sustainability

Amorim adopts sustainable development practices.

Amorim Cork Composites (ACC) is certified both by the Forest Stewardship Council® (FSC) chain of custody certification and certification issued by the Programme for the Endorsement of Forest Certification Schemes (PEFC).

ACC holds a range of system management certificates, including NP EN ISO 9001 (Quality Management System), NP EN ISO 14001 (Environmental Management System), NP EN ISO 45001 (Occupational Health and Safety Management System) and NP EN ISO 50001 (Energy Management System).









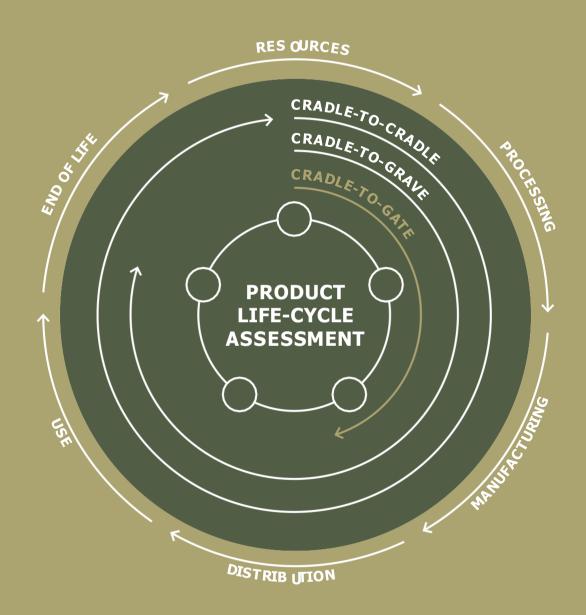


Life Cycle Assessment: measuring Corkeen's environmental impact

A Life Cycle Assessment (LCA) was conducted by EY to quantify the potential environmental impacts of the Corkeen system.

Corkeen's LCA study used a cradle-to-gate approach, which considers all activities, from extraction of the raw material to the finished product at the factory gate. It also included the distribution and installation stages, since Corkeen is an in situ system and its layers are only assembled during installation.

This Life Cycle Assessment was based on the ISO 14040/44 set of standards, complemented with the guidelines from the International Reference Life Cycle Data System (ILCD).





Bringing nature back into play through Sustainability

The Corkeen system has a negative carbon balance

Corkeen has a negative carbon balance when considering the carbon sequestration of cork oak forests and production-related emissions.

The Corkeen system fosters carbon sequestration in the cork oak forest that exceeds the CO2 emissions from its production process.

Corkeen's carbon balance reaches up to -102 kg CO2eq/m2*.



Bringing nature back into play through strong Partnerships

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, certified by Corkeen to install and train other installers of Corkeen system within their geographic territory.



