Our world is cork
Cork is the outer bark of the Quercus Suber L.
(cork oak tree)

Cork oak trees are native to the Western Mediterranean Basin, where growing conditions are ideal.

A cork oak tree can live up to 200 years, during which time it may be harvested 15 to 18 times.

The process of natural cork extraction is called harvesting, a highly specialized process that does not harm the tree.

The cork tree is the only oak species whose bark regenerates itself after each harvest.

After each harvest, the cork oak undergoes an original process of self-regeneration of the bark, which gives the activity of cork harvesting a uniquely sustainable nature.
Harvesting

It takes, on average, 25 years before a cork oak can be harvested for the first time.

The first harvesting occurs when the trunk’s circumference reaches 70cm, measured at 1.3 meters from the ground.

After this first operation, the following harvestings are made at intervals of, at least, nine years, always between May and August, when the tree is at its most active phase of growth.

Harvested in sections of 2/3 of the tree, the bark grows back completely, taking on a smoother texture after each harvest.

It is only after the 3rd harvest – 43 years – that the cork has achieved the standards of quality required for a natural cork stopper.
Cork’s own Nature

Cork is an ecological and sustainable material 100% natural, renewable, recyclable and reusable

› Acoustic insulator
› Thermal effective
› Impermeable to liquids and gases
› Elastic and compressible
› Resilient
› Very light

› High temperature resistant
› Fire retardant
› Hypoallergenic
› Shock absorbent
› Soft touch
› Warm feeling
Annual cork production and cork oak forest area

<table>
<thead>
<tr>
<th>Cork oak forest area</th>
<th>736,775 ha</th>
<th>34%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portugal</td>
<td>574,248 ha</td>
<td>27%</td>
</tr>
<tr>
<td>Spain</td>
<td>383,120 ha</td>
<td>18%</td>
</tr>
<tr>
<td>Morocco</td>
<td>230,000 ha</td>
<td>11%</td>
</tr>
<tr>
<td>Algeria</td>
<td>85,771 ha</td>
<td>4%</td>
</tr>
<tr>
<td>Tunisia</td>
<td>65,228 ha</td>
<td>3%</td>
</tr>
<tr>
<td>Italy</td>
<td>64,800 ha</td>
<td>3%</td>
</tr>
</tbody>
</table>


2.1 million hectares in the West Mediterranean Basin, with ideal growing conditions for this species: soil composition, temperature, water and altitude.
Sustainability
Key Element of our Business

Part of our Mission and of one of our five Core Values

Pride  Ambition  Initiative  Sobriety  Attitude

Our Mission: to add value to cork, in a competitive, differentiating and innovative manner, in perfect harmony with Nature.

Pride: we take pride in the tradition of our business, in our Company history and in the knowledge that we have accumulated in the many years of work of different generations. We are proud to work with a raw material that comes from the earth, that is sustainable, has an identity, and combines tradition, modernity and innovation.
Alignment with United Nations’ SDG

Sustainable Development Goals are an integral part of our Sustainability Strategy

We are committed to a solid and dynamic future with sustainability as the main reference

Corticeira Amorim aligns its strategy with 12 Sustainable Development Goals
Ecosystems Services

Cork oak forests play a crucial role in the world’s ecological balance

- Natural CO2 retainer: cork oak forest sequester up to 73t of CO2 / 1t of cork produced
- Create employment and wealth: 100,000 people depend on the cork oak forests
- Generate high rates of biodiversity: 1/36 Biodiversity Hotspots
- Regulate the hydrological balance
- Protect against soil erosion
- Decrease the risk of desertification
- Act as a barrier against fires

Sustainable management of the cork oak forest as a strategic priority

Several Initiatives:
- developing a Forestry Intervention Program
- promoting FSC® certification
- purchase cork from controlled sources
- commissioning of independent studies of the ecosystem services of the cork oak forest

> 1,300 € /ha/year*
average value estimated of the ecosystem services associated with a cork oak forest properly managed

* The value of cork oak montado ecosystem services, EY 2019
Forestry Intervention Program

Partnership with forestry producers, research institutions and local authorities

Major Goal: to ensure the maintenance, preservation and enhancement of cork oak forests and guarantee continuous production of high-quality cork

- reduction of the first cycle of the extraction of cork (from current 25 years to 10/12 years)
- genetic improvement and vegetative reproduction of the cork oak tree
- setting up a maximum number of trees per hectare
- sequencing the genome of the cork oak tree
- fighting pests and diseases
- fertilization and compatibility of grazing activities

50k ha new cork plantations
+ 7% national cork forest
+ 35% cork production
Greenhouse Gas Emissions

- **80%** of emissions associated with the value chain (scope 3)

- **20%** of emissions generated by the activity (scope 1 & 2)

- **-17%** carbon intensity (scope 1&2) in 2011-18

- **62k t CO₂eq** emissions avoided (2019)

- **63%** energy from renewable sources (biomass) in 2019

- 4.6 M t CO₂ approximate cork oak forest sequestration promoted by the activity

- 274,481 t CO₂ emissions generated by the activity and value chain
Green Products

Cork is an excellent alternative to high impact non-renewable materials, leading to the transition to a low carbon economy

- **Amorim Cork**
  - -309g CO₂eq natural cork stopper*
  - -392g CO₂eq Neutro cork stopper*
  - -562g CO₂eq sparkling wine stopper*

- **Amorim Cork Flooring**
  - 62% products with negative footprint
  - TUV/A+ air quality certifications of all product ranges
  - All products contribute with credits in Green Building certification schemes (LEED/BREEAM)

- **Amorim Cork Composites**
  - Exemplary model of circular economy
  - > 500 applications with sustainability credentials
  - i-cork plant: innovation hub fully dedicated to R&D

- **Amorim Cork Insulation**
  - 100% natural, recyclable and reusable products
  - 0% additives, agglomeration with their own resins
  - 50 years features tested confirm the great longevity

* Carbon balance considering sequestration in the cork oak forest
A Circular Economy

At Corticeira Amorim, Lavoisier’s Law is fully accomplished: Nothing is lost, everything is transformed

Implementation of an integrated production process, enabling and promoting the reuse of all sub-products associated to cork processing:

- 56 years of circular economy principles applied in our business
- valuing byproducts from the production of cork stoppers
- giving a new life to cork stoppers at the end of life-cycle

“Besides involving a less wasteful extraction process and the versatility in the potential product applications, cork is biodegradable, easy to reuse and is resistant enough to be cycled through the economy several times”

Ellen MacArthur Foundation Circulate, June 2015
Sustainable by Nature

- 100% use of cork
- 63% energy produced from biomass
- 485 tons of cork recycled
- 2.9k students involved in environmental education initiatives
- 29 units with FSC certification
- Cork Recycling programs in 5 continents
- > 90% cork/cork products from controlled sources
- > 80% consumed materials from renewable sources
- ≈ 90% waste recovery rate (non-cork)
People, Planet, Profit

Environmental, Social and Economic Impact*

› **1,175 M€/year** total net value of the company’s contributions to society when considering ecosystem services induced by the activity (over 7x higher than the estimated direct gross value added)

› **2.17** production multiplier in the Portuguese economy

› **93%** exports to more than 100 countries

› **75%** goods and services purchased in Portugal

› **39%** contribution to total exports from the municipality of Santa Maria da Feira

› **51%** impact in the employment of forestry sector in Ponte de Sor and Coruche

Promoting employees’ development, safety and well-being

Our goals:

› **reduce accidents by 50%** in 2018-20 (Portugal) and improve the overall accident rate

› **improve working conditions** of employees

› **reduce the number of lost days** caused by professional diseases

› **improve the risk assessment** and implementation of health and safety policies

* Environmental, social, economic impact study, EY 2019 & Economic and social impact assessment study, EY-Parthenon 2019
The World Leader in Cork
Integral Verticalization

CORTICEIRA

AMORIM

AMORIM FLORESTAL

AMORIM CORK

AMORIM CORK FLOORING

AMORIM CORK COMPOSITES

AMORIM CORK INSULATION
About Amorim

› A vertically integrated company

› Deep knowledge about cork and strategic vision of natural resources over the long term

› Maximization of value of resources through product diversification

› Products with negative carbon footprint

› Unique portfolio of cork stoppers covering all the wine, sparkling and spirits segments

› The most complete range of sustainable floorings and wall coverings

› An unrivalled range of breakthrough cork composites for countless business areas

› World class benchmark insulation solutions for sustainable construction
Facts & Figures

› The larger global exporter of cork

› The oldest cork company in the world in continuous operation (1870)

› The largest world’s cork processing company

› Presence in 27 countries in 5 continents

› The world’s biggest distribution network (51 sales companies)

› Large client base, with more than 27,000 clients

› 93% of sales are made outside Portugal

› Sales to more than 100 countries

› 4,424 Employees, including 1,200 outside Portugal

› All the Business Units with internal structures of Research & Development: 8.0 M€ annual R&D Investment
Worldwide Presence

10 Cork Raw Material Preparation Plants

19 Industrial Plants

51 Distribution Companies

10 Joint Ventures
Sales, 2019

Sales by Geographical Area

- EU *: 58.6%
- USA: 17.4%
- Rest of America: 5.4%
- Australásia: 4.0%
- Rest of Europe: 1.6%
- Portugal
- Africa

Sales by Business Unit

- Cork Stoppers: 70.3%
- Composite Cork: 13.6%
- Raw Materials: 12.7%
- Floor and Wall Coverings: 1.5%
- Insulation Cork: 1.8%

The World Leader in Cork
Sales & EBITDA

Values in million euros.

The World Leader in Cork
Net Debt & EBITDA

Values in million euros.

The World Leader in Cork

AMORIM 24
Employees & Staff costs

- Employees
- Staff costs / Sales

The World Leader in Cork
Recent Acquisitions

**Bourrasqué**

Acquisition of 60% for 29 M€ (July 2017); additional 10% acquired for 5M€ (2019); remaining 30% to be acquired by 2022

Wide range of products including stoppers for wine, sparkling wine and spirits
Operating mainly in France, Spain, Italy and Chile
700 million cork stoppers produced in 2016

2016FY: turnover: 55 M€ | EBITDA: 8.8 M€ | Employees: 470

**Sodiliège**

Acquisition of 100% (September 2017); commitment to acquire its facilities for 3 M€

Producer and distributor of bartop closures for spirits such as cognac and Armagnac
Diverse portfolio of high quality bartop closures

2016FY: turnover: 3.2 M€ | EBITDA: 0.14 M€ | Employees: 12
Recent Acquisitions

**Elfverson**

Acquisition of 70% for 5.5 M€ (January 2018)

Produces high quality wooden tops for bartop cork stoppers
Portfolio of premium products and outstanding customer base

2016FY: turnover: 4.8 M€ | EBITDA: 1 M€ |
Employees: 44

**Vinolok**

Acquisition of 50% for 11.0 M€ (July 2019)

Produces and sells high-end glass and crystal closures for wine and spirits bottles
Operates mainly in Europe, particularly in France and Italy

2019FY: turnover: 16 M€ | EBITDA: 5.3 M€ |
Employees: 170
Client Portfolio
Shareholder Structure

Heirs of Américo Ferreira de Amorim Family

50% a)

Amorim Investimentos e Participações, SGPS, SA

51%

CORTICEIRA AMORIM, SGPS, SA

António Ferreira de Amorim Family

50% a)

10.32%

10.09%

28.59%

Free-float

a) Held directly and indirectly
Cork Stoppers
Key figures, 2019

› 559.1 M€ in turnover

› 5.5 billion stoppers sold annually
  (25 million /day)

› 19,000 active cork stoppers clients

› Sales in more than 90 countries

› Main Markets: France, USA, Italy and Spain

› 14 manufacturing units

› 34 sales companies

Leading player in the closures market: 28% of the world market share

Wide portfolio of products with negative carbon footprint

Balance between nature and technology:
› R&D is a strategic pillar, with special focus on sensory performance of cork stoppers
› Innovation in industrial processes and product launching
Products’ Portfolio

Wine

Natural cork stoppers
- Natural
- Acquamark / Colomated
- Twin Top
- Neutrocork
- Agglomerated
- Helix
- Advantec
- Advantec Colours

Technical cork stoppers
- Spark
- Spark Top One
- Spark Agglomerated

Both

Spirits

Sparkling, Frizzante, Beer and Cider

Top Series
Research & Development

Market Focus

Amorim is perfectly placed to capitalize on growing market demand for cork-sealed wines

![Chart showing market focus on cork-sealed wines]

**ONE STOP SHOP**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Natural (flór/extra/sup)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;150 €</td>
<td>Sustained image of guaranteed quality</td>
</tr>
</tbody>
</table>

**Requirements**

<table>
<thead>
<tr>
<th>Ultra Premium</th>
<th>Natural (flór/extra/sup) Screwcaps</th>
</tr>
</thead>
<tbody>
<tr>
<td>14-150 €</td>
<td>Relationship with customers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Super Premium</th>
<th>Natural (sup/2nd grade) Twin Top A/B, Screwcaps</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-14 €</td>
<td>Relationship with customers (base for tenders)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Premium</th>
<th>Twin Top A/B/C, Colimated Neutrocork, Screwcaps Synthetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-7 €</td>
<td>Functional – Low cost Relationship with customers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Popular Premium</th>
<th>Twin Top B/C, Colimated Neutrocork, Aggio Screwcaps; Synthetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-5 €</td>
<td>Functional – Low cost</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basic</th>
<th>Twin Top C, cheap Colimated Aggio; Synthetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;3 €</td>
<td>Functional – Low cost</td>
</tr>
</tbody>
</table>

Source: Rabobank
NDtech

Amorim is the world’s first cork producer to deliver natural cork stoppers to winemakers with a non-detectable* TCA guarantee.

€12 million investment (6 years)

53 million stoppers sold in 2019

Cutting-edge, rapid gas-chromatography

Individually screens cork stoppers in the production line

Independently validated, eliminates the risk that any natural cork contaminated with TCA will reach winemakers and consumers

Ndtech Sparkling launched in 2019 (two-disc sparkling wine stoppers)

The level of precision necessary to meet this standard is astounding, given that 0.5 nanograms/litre is equivalent of one drop of water in 800 Olympic-size swimming pools.

* releasable TCA content at or below the 0.5ng/L quantification limit; analysis performed in accordance to ISO 20752.
Helix

The cork & glass solution with an “unexpected twist”

A partnership between Amorim and O-I

Combines an ergonomically-designed cork stopper and a glass bottle with an internal thread finish in the neck

Delivers all the benefits of cork and glass:

› quality, sustainability and premium image

› with user-friendly, re-sealable convenience

100% renewable and modern product, which also enhances the wine drinking experience through opening and resealing convenience

Target: popular premium, fast turnaround still wine segment
Floor & Wall Coverings
Key figures, 2019

› 108.6 M€ in turnover

› 10 million square meters of production capacity

› Main Markets: Germany, Scandinavia, USA, Portugal, Netherlands, and Switzerland

› Sales to more than 70 countries

› 1 industrial plant

› 11 sales companies abroad, including 1 Joint-venture

A diverse portfolio of sustainable floor and wall coverings with exclusive properties

Top quality, versatile flooring solutions with sustainable and comfort credentials

Incorporation of state-of-the-art technologies that enhance cork’s natural properties

Distribution Units

- Amorim Benelux
- Amorim Deutschland
- Cortex
- Amorim Flooring Switzerland
- Amorim Flooring North America
- Amorim Flooring Russia
- Timberman, Denmark
- Amorim Flooring Sweden
- Amorim Flooring Austria
- Korkkitrio

Joint Ventures

- Dom Korkowy, Poland
Cork Benefits

Amorim Cork Flooring products take advantage of a unique engineered multilayer structure, which combines groundbreaking technology with the exclusive natural properties of cork.

Unique benefits:
› Silence
› Impact resistant
› Walking comfort
› Natural Thermal Insulation
› Indoor Air Quality
Sustainable Products

A portfolio of products that aligns design, performance and sustainability

› Positive Impact on carbon regulation: 62% of the products are carbon negative

› Indoor Air Quality: all products comply with the strictest standards and are certified by TÜV-PROFICERT and A+

› Sustainable Buildings: all products contribute with points to LEED and BREEAM certifications

› Environmental Performance: processes and products respect the highest standards in environmental protection (most products hold EPD Environmental Product Declaration and/or Blue Angel certification)
Amorim WISE

A non PVC sustainable flooring with negative carbon footprint

**Installation in large areas without transition strips**

**Waterproof**

**Reinforced dimensional stability**

**Minimum subfloor preparation**

AMORIM WISE

NON PVC PROTECTIVE LAYER
Class of use 33

DECORATIVE VISUAL
Wood or Cork

COMFORT +
Cork inlay

NON PVC CORK RIGID CORE

ANGLE/ANGLE INSTALLATION SYSTEM

COMFORT +
Integrated cork underlay
Wicanders’ Portfolio

[Images of wood, cork, stone, and dekwall materials]

Go
Essence
Resist
Resist Eco
Hydrocork

Go
Essence
Sagrada Familia, Gaudi

“I have always regarded cork as an excellent material, and have used it in a number of projects designed by myself. Whenever I have used cork the results have been good, and it is also an interesting option from an economic perspective.”

Jordi Bonet i Armengol,
architect in charge of Sagrada Familia’s construction
Composite Cork
Key figures, 2019

› 104.5 M€ in turnover

› Main Markets: USA, Germany, Portugal, Russia, France, Belgium, United Kingdom, Netherlands, Japan, India

› Sales to more than 80 countries

› 2 Industrial Units (Portugal and USA)

› 6 Sales Companies, including 1 Joint-venture

More than 50 years of circular economy practices
› taking circular economy to a profitable economic model, broadening applications and improving competitiveness and performance

Leveraging on cork’s properties and extending well beyond its current boundaries

Constantly developing new products, that blend cork with other materials
Composite Cork

Breakthrough applications for the construction industry

Advanced components for spacecraft

An unrivalled portfolio of design products for the home and office

State-of-the-art solutions for the transport sector

Countless applications
Circular economy

Valuing byproducts from the production of cork stoppers

Giving a new life to cork stoppers at the end of life-cycle

Promoting the use of byproducts of other industries

Together, we:
› Reduce waste
› Give new life to products
› Take care of the planet
Materials and Applications

- Aerospace
- Automotive
- Construction
- Consumer goods
- Flooring
- Footwear
- Furnishing
- Panels and composites
- Electricity industry
- Seals and gaskets
- Sport surfaces
Panels and Composites

Cork is applied as a core in a diverse range of business areas: transportation (buses, metros and trains), construction, footwear, aerospace, transmission and distribution of energy, flooring components, among others.

Some of key advantages that cork adds to processing industries targeting mobility and modularity:

› Noise and thermal insulation;
› Reduced environmental impact;
› Light weight and durability;
Marine industry

State-of-the-art cork composites specially designed to meet the needs of shipping industry, delivering key advantages, while still being easy to maintain and clean.

› Non-slip surface
› Durability and flexibility
› Acoustic and thermal insulation
› Efficient energy consumption
› Lightweight
› Great comfort
Construction

Underlays and underscreeds
Vibration Control
High Resilient Flooring components

Cork offers advantages in terms of construction quality, interior atmosphere and comfort.

Cork helps to save resources:
- low energy consumption in the production process
- only raw material that can guarantee an identical level of technical performance throughout the product’s useful life

Railway
Vibration Control in Railway Infrastructures

Amorim’s product portfolio contemplates solutions to reduce the vibration impact in light rail, underground, heavy and high speed rail infrastructure sector.
Footwear

A supplier of material solutions for the shoe manufacturing industry, reinventing comfort, orthotics and fashion.

› Light weight;
› Warmth;
› Breathability;
› Good compression/recovery properties;
› Comfort: enhances pressure distribution and temperature control.

Flooring

Resilient and eco-friendly components for all flooring layers, which contributes to environmental preservation.

Cork is used either in the production of components for each of the floor’s various layers, or in the production of accessories for these systems (subfloors).
Aerospace

A supplier of cork-based materials for the Aerospace Industry since the beginning of the space age (Apollo 11 mission)
Cork supports temperatures up to 2,000°C
› Impact protection
› Lightweight
› Thermal insulation
› Controlled ablation
› Dimensional stability

Electricity Industry

Amorim manufactures materials and gaskets for the transformer industry since the early 80s
Engineered solutions in sealing, noise and vibration control for the power transmission and distribution market
A range of products that is performance-driven and renowned worldwide, with a long history in transformers, reactors, bushings and other components
Sport Surfaces

Cork granules for artificial turf

Cork is a natural infill that is 100% environment friendly
An organic, recyclable and sustainable product, and non-toxic
› Thermal efficiency
› Shock absorption
› Durability
› Water savings

Flooring for sports and multipurpose halls

Applied as a final flooring, floors with cork cushion the physical impact and provides comfort and safety for users
An ideal solution for running tracks, fitness and aerobic floors
Automotive

A combination of unique blends of cork and selected rubbers that reduces side flow, allowing an effective sealing barrier

Products for:
- powertrain applications (soft gasket sealing);
- non-powertrain damping and isolating solutions, including oil pans, valve covers, radiators, automatic transmissions, and wiper systems

Seals and Gaskets

The best sealing technology is always associated with high performing applications, that are subject to extreme tests of resistance, heat and pressure

Sealing solutions to numerous industries

Unique blends of cork and selected rubbers produce materials indicated for soft gaskets sealing
Consumer Goods

Home Improvement - DIY

Natural, durable, decorative and sustainable products, which can be used as insulating materials, sound and thermal barriers on floors, walls and ceilings

Home and Office Products

Products for everyday use at home or in the office, based on the company’s own designs or supporting the development of ideas by other designers
Furniture and Interior Design

Cork is used by some of the world’s furniture leading brands
It is a natural material with wonderful haptic and sound-buffering properties
It delivers a cosy atmosphere in home, offices and even leisure spaces
Garrett McNamara Surfboard

“As Portugal is the world’s largest producer of cork, it makes perfect sense to use this material to produce a high-performance board to ride the legendary waves off the coast of Nazaré. When you are surfing giant waves you need a flexible and impact resistant board that won’t break. I believe that these surfboards will be the benchmark in terms of technology for those surfing giant waves.”

Garrett McNamara

› Impermeability
› Damping capacity
› Resistance
› Flexibility
Materia

“A living material that mainly features in the craft traditions of the western Mediterranean, cork not only represents one of the most amazing combinations of properties to be found in a natural raw material but also has the extraordinary characteristic of not being replicable.”

Maria Cristina Didero, about MATERIA in Domus magazine

MATERIA. CORK BY AMORIM

Participants:
Big-Game (CH), Daniel Caramelo (PT), Fernando Brízio (PT), Filipe Alarcão (PT), Inga Sempé (FR), James Irvine (GB), Kōji Takeuchi (JP), Maria Sousa Santos (PT), Miguel Vieira Baptista (PT), Nendo (JP), Pedrita (PT), Raw Edges
Curated by Experimentadesign
Serpentine Gallery Pavilion

The Serpentine Gallery Pavilion is an annual landmark of the architectural world, an initiative that entails the design of an iconic structure every year, and the 2012 Pavilion was the most visited until that date.

“Come down these cork steps in Kensington Gardens and, when the sun shines into these haunting recesses, see for yourself.”

Jonathan Glancey, The Telegraph

“Cork is a natural material with wonderful haptic and olfactory qualities with the versatility to be carved, cut, shaped and formed, as demonstrated in many historical examples of cork architectural models. The porosity of cork made it soft enough to be precisely carved, light enough to be easily transported, and irregular enough to visually portray the character of ancient ruins. As we hoped the properties of cork made it ideally suited to the concept.”

Herzog & de Meuron (CH), Ai Weiwei (CN)
Tate Modern, Hyundai Commission

Development of a new cork composite, able to meet extremely demanding requirements in terms of impact absorption.

A project by Superflex

“Central to Superflex’s installation One Two Three Swing! is a forest of swings that sit on a stunning cork wall to wall floor. Inspired by its unique natural properties, aroma, colour and use as an impact approved surface, the artists were compelled to use this stunning material in a new and exciting way on a scale never explored before.”

Synthia Griffin, Curator
Metamorphosis

Research and development project on the unparalleled potential of cork.

Participants:
Alejandro Aravena (CL), Álvaro Siza (PT), Amanda Levete (GB), Eduardo Souto de Moura (PT), Herzog & de Meuron (CH), James Irvine (GB), Jasper Morrison (GB), João Luís Carrilhoda Graça (PT), Manuel Aires Mateus (PT), Naoto Fukasawa (JP)
Curated by experimenta:design
Lisbon Cruise Terminal, by Carrilho da Graça

An innovative solution, combining concrete with cork, is 40% lighter than regular concrete.

“In the future, I’m thinking about using this concrete solution for construction of small buildings, because it delivers a high degree of insulation.”

“I think that cork will tend to be used more and more, because it has unique characteristics. I think cork is extraordinary!”

Carrilho da Graça
Insulation Cork
Key figures, 2019

› 14.2 M€ in turnover

› Main Markets: Europe (Portugal, France, Italy and Spain), Asia and Middle East

› Sales to more than 45 countries

› 2 industrial plants

Specially designed to match the demands of sustainable construction

Offers excellent technical performance with virtually unlimited durability

100% natural process: cork is the only raw material, uses no additives, all byproducts are fully reusable

Very low-embodied energy material: close to 90% of energy consumption is obtained from biomass
Main features

› 100% natural and 100% recyclable product
› Carbon negative
› Very low embodied energy
› Thermal, acoustic, and anti-vibration insulation simultaneously
› Promotes thermal lag
› Indoor quality A+
› High dimensional stability
› Supports temperatures between -180°C and +120°C
› Good compression resistance
› Permeability to water vapor
› Practically unlimited durability (keeping the technical features)
› Does not release toxic gases in case of fire
› Does not react to chemical agents
Applications

Expanded insulation corkboard: High performance solution for thermal, acoustic and anti-vibration insulation, especially suitable for use in indoor, outdoor and cavity walls; slabs; flat and pitched roofs and radiant floors.
MDFACADE

Special range of expanded insulation corkboard with high technical performance for exterior wall cladding, interior walls and ceilings – cork at sight

Eco hotel in an area surrounded by cork oak forests

MujiHut, by Jasper Morrison, Tokyo

Adegado Portal, by Álvaro Siza in the Douro Valley

Private house, Portugal
Corksorb

The Corksorb products are absorbents designed to deal with any kind of hydrocarbons, oils, solvents and organic compounds spills, either in aquatic or terrestrial environments.

Sustainable and 100% natural absorbents

› Instantly absorbs oils/hydrocarbons/chemical spills
› Super absorption capacity
› Hydrophobic (Does not absorb water)
› Cost effective (Requires less product and only absorbs the contaminant)
› Non-abrasive and non-reactive
› Reduces waste (Reuse cork granules over and over again)
Expanded Cork Granules for Natural Turf

A performance that mainly results from cork’s elastic memory

Cork reduces the impact of players’ falls by about 40%

Other key advantages:
› preservation of the grass and high durability, even during periods of heavy rainfall
› requires much less irrigation water

Four Euro Cup 2016 stadiums already use the solution:
› Lyon
› Toulouse
› Saint-Etienne
› Bordeaux
Cork House

Finalist of the prestigious Stirling Prize and winner of RIBA’s 2019 Stephen Lawrence Prize

Cork House is the first of its kind, with monolithic walls and corbelled roofs made almost entirely from solid load-bearing cork. Conceived as a kit-of-parts, components are prefabricated off-site and assembled by hand on-site without mortar or glue, so that all 1,268 blocks of cork can be reclaimed at end-of-building-life for re-use, recycling, or returning to the biosphere.

This highly innovative cork construction kit is carbon-negative at completion, with exceptionally low whole life carbon.

The house uses a developed version of an innovative construction system researched, designed and tested by MPH Architects, The Bartlett School of Architecture UCL, University of Bath, Amorim and Ty-Mawr. The R&D process included in-depth laboratory tests for structural performance, rain penetration and fire, with two prototype structures used to establish the real-life performance of the construction system.
“Cork is known for its natural temperature-regulating properties and it is known to maintain a similar temperature to our own bodies, thus providing a unique connection between us and the product. As a result, this bench offers a very comfortable experience.”

Naoto Fukasawa
Istanbul Design Biennial

“As a material that immediately gives a sensation of warmth and personality though highly engineered, cork complements perfectly the theme of the exhibition – The future is not what it used to be.”

Gregers Tang Thomsen, founder and lead architect of Superpool
Amorim Cork Ventures
Fostering Innovation and Entrepreneurship

We look for new ideas for the Cork industry, mainly targeted to foreign markets

We support with facilities, mentoring and prototyping

We invest in startups

Set up in June 2014

350 + applications from several industry sectors

25 different countries with applications

20 projects supported (11 still active)

5 startups created (3 startups in current portfolio)
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