

REINVENTING  
HOW CORK  
ENGAGES  
THE WORLD.

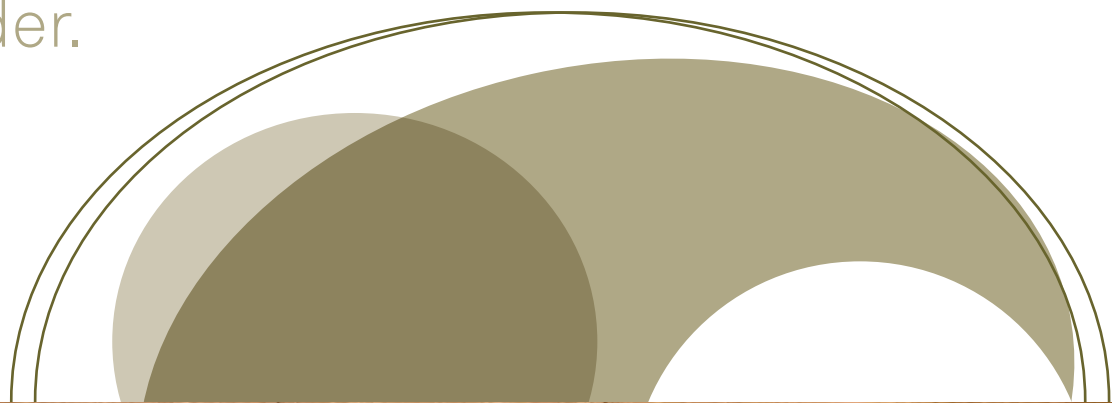


**AMORIM**

CORK COMPOSITES

# 1. REINVENTING HOW CORK ENGAGES THE WORLD

The Cork  
Industry  
world leader.



RECYCLING,  
REUSING,  
AND REINVENTING  
ENTIRELY NATURAL AND  
ORGANIC MATERIALS.

A close-up photograph of cork flooring tiles. The tiles are rectangular and arranged in a staggered pattern. The color is a warm, natural brown. The lighting creates soft shadows between the tiles, highlighting their texture.

# Amorim Cork Composites

At Amorim Cork Composites (ACC), we strive daily to reinvent the world: we recycle, reuse and reinvent entirely natural and organic materials. And thus do we invent a new world.

We belong to Corticeira Amorim, a pioneer and leader in the cork industry ever since the 19th century and which today is one of Portugal's largest industrial groups.

Corticeira Amorim has become the global cork industry world leader, which still today remains its main business sector and grouped into four fields: stoppers, floor and wall coverings, insulation and composites.

The cork not incorporated into the stopper industry represents the ideal raw material deployed in the development of a portfolio of materials tailored to the needs and requirements of various different industries – ranging from construction, with thermal-acoustic solutions, home and office decoration as well as design and functional objects ensuring cork is of relevance to end consumers and through to the development of materials for hi-tech industries – such as, the automobile, aeronautical and aerospace industrial sectors.

Innovation is our attitude and our driving force. ACC pioneered the implementation of the CORK.IN program, the Corticeira Amorim online platform for sharing and managing ideas about innovation.

This program seeks to strengthen Corticeira Amorim's culture of continually adding competitive value to cork through differentiation and innovation. This proves a catalyst for the integrated involvement of the entire company in seeking out new and innovative solutions.

For us, the importance of the responsibility of contributing today for the future is an essential objective. Thus, we incorporate various raw materials into our products which aim to innovatively respond to competitive market demands, as well as create advances and cutting-edge procedures which grant the final consumer with unique products.

We fully assume our commitment to sustainability through an internal program that seeks to align all ACC members of staff around the strategic objectives enabling us to maintain the greatest of respect for the environment through products designed in accordance with the most demanding of applications and markets.



## REINVENTING SUSTAINABILITY FOR THE FUTURE

We recycled 172 tons of cork stoppers last year.



# 2. REINVENTING SUSTAINABILITY AT ITS CORE

In the beginning  
there was cork:  
the raw material with  
multiple purposes.



WE PERCEIVE  
SUSTAINABILITY  
AS THE BEGINNING,  
THE MIDDLE AND THE END.



## REINVENTING SUSTAINABILITY FOR THE FUTURE

Cork is harvested every  
nine years without harming  
the tree.

## Cork

We accept sustainability as our beginning, middle and end. Working with natural cork as our raw material drives our inherent respect for nature and the appropriate and efficient management as an unequivocal and constant demand.

100% natural, reusable and recyclable, cork is, whether from the environmental, social or economic perspectives, one of the world's most versatile materials.

The bark of the cork is removed every nine years subsequent to the tree attaining maturity (around 25 years). Its characteristics are utterly unique – a natural impermeability to liquids and gases, elasticity, compressibility, highly resistant, lightness, buoyant in water, thermally and acoustically insulating and slow burning combine to ensure cork represents an excellent, first-choice raw material.

No other material, artificial or natural, combines the range and depth of the properties cork is naturally endowed with.



## REINVENTING SUSTAINABILITY FOR THE FUTURE

14 Corticeira Amorim units are certified by the FSC® - the Forest Stewardship Council.

## Certification

We have adopted sustainable development practices to an unprecedented extent in the cork industry. We hold both Forest Stewardship Council (FSC®) chain of custody certification and certification issued by the Programme for the Endorsement of Forest Certification Schemes (PEFC) which together demonstrate those raw materials used in FSC® or PEFC certified products are sourced from responsibly managed forests.

This certification confers our solutions with a determinant factor in the choices made by those prioritising a positive social and environmental impact across the most diverse range of applications and businesses.

We also hold a range of system management certificates and including NP EN ISO 9001 (Quality Management), OHSAS 18001 (Hygiene, Work and Safety Management System), NP EN ISO 14001 (Environmental System Management).

Furthermore, we are the first company in the world to launch a cork based underlay product that has gained the CE marking, testifying to its appropriateness as a product and the fact that it attains total technical compliance with all sustainable construction requirements.

We have also been awarded Environment Product Declaration (EPD) recognition by BRE for our ACOUSTICORK range of flooring solutions and detailing the superior environmental performance of our products over their respective life cycles with such recognition awarded ACC products under the auspices of the BREEAM sustainable construction certification system.

# 3. REINVENTING CUTTING EDGE BUSINESSES

Presents  
from nature to  
transform the  
future through  
4 Business areas.



WE HAVE ESTABLISHED OUR  
PRESENCE IN CONSTRUCTION,  
INDUSTRY, CONSUMER GOODS AND  
THE TRANSPORT INDUSTRIAL SECTORS.

# CONSTRUCTION



## ACOUSTICORK

### Acoustic, thermal and vibration insulation

ACOUSTICORK solutions are designed to meet the insulation requirements in Sustainable Construction. They offer an excellent acoustic performance (noise impact and airborne noise), thermal comfort, waterproofing and anti-vibration solutions. The ACOUSTICORK range includes products for underlayment, underscreed, heated floors, masonry supports, battens supports, waterproofing and partition walls.

## SPORTS FLOOR

### Sports flooring

AMORIM SPORTS FLOOR brand has a product range specifically designed to achieve a unique level of flexibility, resistance to usage and impact absorption. These properties make AMORIM SPORTS FLOOR the right choice for flooring surfaces in gymnasiums, sport centers and ramps, optimizing at the same time the comfort levels during sports practice or leisure activities.

## EXPANDACORK

### Expansion joints

Designed to fill the gaps left between expansion joints in concrete slabs, EXPANDACORK products absorb the vibrations, expansions and contractions caused by heat in the different construction materials. The dilation joints enable the movement of structures without causing damage and ensuring these spaces are always filled. Thus, they are commonly applied in tunnels, water storage and supply systems, aqueducts, dams and airports.

## CORKWALL

### Projected cork walls and ceilings

CORKWALL is a final coating for interior walls and ceilings, facades and roofs. This product is a cork based emulsion applied through projection, acting as a thermal and acoustic insulation. It repairs and prevents cracks in the facades of buildings. A easy, fast and low-cost installation coating solution.



# INDUSTRY

## T&D

### Energy Transmission & Distribution Industry

AMORIM T&D provides engineered solutions in Sealing, Noise and Vibration Control for the power transmission and distribution industry. A customised polymer formulation, extensive product testing and support provides a robust sealing solution for extreme application conditions as well as when designing low noise equipment. AMORIM T&D products are performance driven and duly recognized worldwide, with a long history in transformers, reactors, bushings and other T&D components.

## TPS

### Aerospace

TPS materials have been used since the dawn of the Aerospace Industry, a pioneer in lightweight thermal protection systems for ablative shielding. The unique TPS cork composite formulation and extensive track record in manned and unmanned space vehicles have stood the test of time and continue to be the first-choice preference in an industry considered as one of the most technologically advanced.

## TECHSEAL

### Sealing

TECHSEAL is soft gasket technology providing a range of products that are designed to withstand a wide variety of application needs. Its unique features have made it the preferred material used across multiple applications and industries, ranging from marine, gas, industrial, heavy duty and automotive, keeping up with an ever changing market with specific solutions for ethanol and biodiesel fuel blends.

## FOOTCORK®

### Fashion and comfort for the footwear Industry

FOOTCORK's attractive nature and natural origin has made it a trendy material, being used by several famous brands and designers worldwide to present novelties based on lightweight, warmth and comfort materials. Also throughout decades, the comfort and orthotics/podiatry segments are using FOOTCORK® range products, providing remarkable comfort performance due to lightweight, warmth, breathability and compression/recovery characteristics.

TPS



© NASA image gallery

FOOTCORK



© APCOR



CORECORK

## CORECORK

### Sustainable Core Materials

The Composite Materials Technology product range is focused on core materials for lightweight composite structures and products, while Sandwich Materials Technology product range is aimed at thermal, acoustical or fire performance for sandwich constructions, used in residential and industrial applications.

## FRICIONPADS

### Decoupling materials

FRICIONPADS engage adherence in multiple applications, an excellent balance of adherence and resiliency, providing the necessary resistance and cushioning for a large number of industries. From distance pads for delicate transport, to paper dispensing systems in every office and home, a simple solution that makes every difference.



NRT

## NRT

### Noise reduction technology for flooring

The experience of Amorim Cork Composites in the flooring industry has driven the development of products specifically designed for this sector. **NRT** products not only generate an impressive level of noise reduction but also respond to the requirements of an increasingly demanding market. The high technical performance of the **NRT** product range demonstrates our constant attention to developing solutions in alignment with the business ongoing processes with our partners.

## VIBRATIONCONTROL

### Vibration control and noise solutions

Amorim Cork Composites experience and knowhow in composite materials has led to the development and production of vibration control materials and products, with a unique balance between isolation and damping characteristics. Our solutions are focused on offering customised and flexible solutions for a wide range of applications and markets, such as construction, railway and industrial OEM's.

# CONSUMER GOODS

## CORK4U

Home improvements can easily be made by using cork products. **CORK4U** are natural, durable, decorative and sustainable products, and can be used as insulation materials, noise and thermal barrier for floors, walls and ceilings.

## KORKO®

Using cork, a 100% natural material, both reusable and recyclable, we create products for both home and the office, thus providing that nature works: these products naturally integrate function and contemporary design combined with its eco-friendly characteristics.

## KORKO® *selection*

The **Korko Selection** results from the most careful selection of household design objects. Inspired by contemporary design in which elegance is allied with function and aesthetics is combined with practicality, this collection is harmoniously integrated into the day-to-day life of a home. Ranging from kitchen utensils and tools to items that simplify routines, all **Korko Selection** products stem from a unique process striving to attain the perfect object.

## alma gé♥ea

Soul Mate products are designed for home daily life, having in mind functionality and design, integrating two Portuguese traditional materials, cork and earthenware. Soul Mate could have been a love story between two different people, who despite their differences find both common and complementary characteristics and which together build a stronger "one".

## MATERIA.

CORK BY AMORIM

Gathering the unique sensorial characteristics and personality of an ancient raw material to the challenging design perspective, **MATERIA** is a collection of objects that integrate in the environment and experiences of our daily life in a fluid and functional way. **MATERIA** reveal cork's potential for comfort, functionality and sensory delight. Curated by Experimenta Design, the collection was designed by 10 Portuguese designers and studios.



# TRANSPORT INDUSTRY

The lightness, the high level of acoustic insulation and the sheer durability of cork provided the foundations for it becoming one of the most versatile and effective materials. The development of products specifically for the transport industry focuses on incorporating cork into the core of structures requiring the highest technical standards for the interior of means of transport such as trains, underground coaches, buses and planes.

To meet future transport market demands, the **CORECORK** and **ALUCORK** brands come up with innovative solutions that stand out and especially in this increasingly demanding market.

The Transport Industry range of products includes:

- Panels
- Flooring systems
- Railway systems



## REINVENTING SUSTAINABILITY FOR THE FUTURE


The lightness and noise absorbing capacities are two of cork's key characteristics.



4.

# REINVENTING INNOVATION FOR THE FUTURE

A vanguard  
platform  
of innovation.



THE IMPORTANCE  
ATTACHED TO INNOVATION  
IS ONE OF OUR CORE  
FACTORS OF SUCCESS.

New products, new markets, new applications and leveraging the intrinsic characteristics of cork to their maximum represent the foundations for our future development. We have a continuous stream of various different R&D research projects that, apart from developing these strategic factors, also ensure the continued expansion of core competences.

The dynamism of ACC in terms of its new product launches drives a constant search for new and environmentally sound raw materials that combine with cork to come up with differentiated products and value proposals tailored to core market needs.

Capitalising on this positioning in the value chain, evolving our product range to target other systems and solutions represents another factor of the ACC business development strategy.

We prioritise the constant striving to develop new applications and usages for our materials, products and solutions as a factor fundamental to the differentiation, growth and sustainability of our business.

The importance attributed to innovation is one of the leading factors of our success. Fostering a constant attitude of irreverence and the values underpinning innovation in our culture will prove

to be the core foundations to the success of projects including:

**LIFE | Designing** an innovative design concept for airplane interiors, integrating sustainable materials such as cork.

**IBUS** | Developing cork based components for vehicle interiors.

**ECOTRAIN | Fitting** cork into high-speed trains enabling a reduction in weight and thereby optimising energy consumption levels.

**ISEAT** | Integrating cork into seats for trains and underground coaches.

**PLASCORK** | Replacing synthetic components with cork in car interiors.

**AEROFAST** | Deploying cork in space vehicles.

**ATPI** | Developing anti-vibration systems and acoustic and thermal insulation for the aeronautics sector.

**WALLINBLOCK** | A modular solution designed for the sustainable construction sector and integrating cork.





LIFE

## LIFE

A concept developed for the future of executive aviation providing a travelling experience of comfort and sophistication through the combination of state of the art solutions and technology with natural and sustainable materials such as cork.

The thermal and acoustic comfort attained from the installation of CORECORK sandwich panels of natural leather and Corkleather is one of the innovative aspects of this cabine interior design project.

Cork is incorporated into the airplane's ceiling, lateral panels and seating in conjunction with advanced composite materials, including carbon fibre, which results in a significant overall reduction in weight, coupled with effective gains in terms of the thermal, acoustic and anti-vibration properties.

**Winner of the  
International  
“Crystal Cabin Awards”  
in the  
“Visionary Concepts”  
category**



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## OTHER LOCATIONS

### PORTUGAL

Corroios

### USA

Trevor - Wisconsin

### AUSTRIA

Wien

### GERMANY

Delmenhorst

### NETHERLANDS

Tholen

### UNITED KINGDOM

Horsham - West Sussex

### FRANCE

Lavardac

### SPAIN

San Vicente Alcántara

### CHINA

Shaanxi  
Shanghai

