

CONCEITO: BY AMORIM A LÍNGUA DO METAMORFOSIS PROJECT



**about  
cork  
composites**

# about cork composites



**Flooring**  
The materials for top layer, inlay, core layer and pre-attached underlayment are manufactured with NRT - Noise Reduction Technology, thus providing better noise reduction and greater thermal comfort. The range also includes underlays for each type of floor.

*Innovation, technology, future. Amorim Cork Composites is a world leader in cork composite materials. Incorporating cutting edge technology, the company researches and develops cork composites for some of the world's most demanding industries.*

*Accurately combined, ACC's different composites leverage cork's unique properties, extending its use well beyond the current boundaries of this 100% natural material. Whether combining cork with rubber, carbon fiber, plastic or with foams, the portfolio of cork composites is made with the waste of other industries, a remarkable model of circular economy.*

## corticeira amorim

Amorim Cork Composites (ACC) is Corticeira Amorim's most technologically advanced area. Internationally renowned for its R&D credentials, the company's pioneering spirit – coupled with cork's unique properties – has made it possible to deliver a remarkable range of high-performance, state-of-the-art products; a veritable new universe in cork, which doesn't just meet current demands but also anticipates tomorrow's trends and markets.

Founded in 1870, Corticeira Amorim is a robust economic group with an international profile, and is the leader in the cork industry, selling 95% of its production to over 100 countries, outside Portugal.



## cork

Cork is the outer bark of the cork oak tree – *Quercus Suber L.* – which has grown for millennia throughout the Mediterranean Region. The life span of these exceptional trees is between 200 and 250 years and it takes 25 years before a cork oak tree can be harvested for the first time. After the first harvesting, cork oaks are stripped in nine year cycles. Cork is the only oak species whose bark can regenerate after each harvest – leaving the tree unharmed.



**Serpentine Gallery Pavilion** in London, a project signed by Herzog & de Meuron and Ai Weiwei.



**Lisbon Cruise Terminal** presents an innovative solution, combining white concrete with cork. Developed by the architect Carrilho da Graça, it is 40% lighter than regular concrete.



**Metamorphosis** is the result of a R&D process concerning the potential of cork. Leading architects – Alejandro Aravena, Álvaro Siza, Amanda Levete, Carrilho da Graça, Eduardo Souto Moura, Herzog & de Meuron, Manuel Aires Mateus – and three renowned product designers – James Irvine, Jasper Morrison and Naoto Fukasawa – joined the project.



**Tate Modern** 1,2,3 Swing!, by Superflex for the Hyundai Commission, displays an entirely new cork composite for high impact absorption and resistance to wear and tear.



**Inspiro, the state-of-the-art Siemens metro** with an Alucork flooring solution, which contributes to weight savings of around 30%

## reinventing the future with leading-edge cork solutions

- 100% Natural
- Recyclable And Reusable
- Lightweight
- Compressible
- Resilient
- Shock Absorbent
- Stable
- Thermal Effective
- Sound Insulator
- Temperature Resistant
- Moisture Proof
- Flexible
- Soft Touch
- Warm Feeling



### Consumer Goods

A portfolio that includes both home and office designed products, as well as collections made in partnership with talented designers, curated by relevant architecture and design institutions.



### Furnishing

Cork's sensory and functional attributes make it a material of choice for designers and engineers in the furniture industry.



### Footwear

Applied in footwear, cork ensures a better distribution of body weight, cushions impact, controls temperature and allows the foot to breathe.



### Panels and Composites

Core materials used in acoustic panels, plain or multilayer partitions, doors, window frames, modular flooring, and ceilings and even to side panels in maritime and land transport.



### Construction

Efficiency, resilience and durability make cork the ideal material for the creation of technically demanding yet sustainable solutions – underlays, underscreeds, wall bearing and vibration control materials - for construction and big infrastructures.



### Aerospace

Cork chemical and physical structure makes it the ideal raw material for ablative thermal protection systems, due to its excellent insulation properties, lightness and low thermal conductivity.



### Automotive

The combination of cork with rubber allows the development of high-performance sealing solutions for the automotive industry.



### Seals and Gaskets

Cork-with-rubber solutions specifically formulated to produce the most suitable materials for sealing.



### Power Industry

The use of cork composite agglomerates makes it possible to extend the life of the components used in power plants and distribution networks.



### Sport Surfaces

Cork is an option that brings the concept of "natural" back to synthetic turf systems. The use of cork components reduces field's temperature and water consumption and improves impact absorption providing comfort, safety, and performance.