



www.seacork.eu



Contact us NOW for further details at:

Seacork Northern

Telephone: +44 (0)203 286 4567

Or Email: info@seacork.eu

Seacork

1. **The product**
 - a. **Seacork**®
 - b. Cork
 - c. Source of Cork
2. **Ecological Aspect**
 - a. Eco Friendly
 - b. Sustainability
 - c. WWF Carbon Footprint report
3. **Safety**
 - a. Non slip
 - i. Traction: 15 dN/cm²
 - b. Even when wet
 - c. Soft impact / Shock Absorbent
 - d. Non-abrasive
4. **Performance**
 - a. Lightweight
 - b. Durability
 - c. Weather Resistance
 - d. Heat (temperature extremes) / Stable
 - i. Specific Heat > 1500 J/(Kg K)
5. **Natural attributes**
 - a. Weight
 - i. Density 400 Kg/m³
 - ii. Weight (8mm thick) 3.2kg/m²
 - b. Strength
 - c. Sound and heat
 - i. Thermal conductivity 0.05/0.06 W/(m K)
 - ii. Thermal diffusivity < 1.60.10⁻⁷ m²/S
 - iii. Specific Heat > 1500 J/(Kg K)
 - d. Compressibility
 - i. 15-20%
 - e. Comfort under foot
 - f. Natural look / aesthetic
6. **Versatility**
 - a. Available in plates or strips
 - b. Install
 - c. Maintain
 - d. Repair
 - e. Flexibility
 - f. Personalisation
 - g. Other applications

The product



Seacork[®] a superior, eco-friendly, slip-resistant and light-weight deck covering material, with excellent inherent strength, acoustic and thermal insulation properties. Its natural look and versatility make **Seacork**[®] the perfect choice for your marine application.

Seacork[®] can be installed on any vessel, GRP, Fibreglass, Steel, Aluminium or Wood. The ease of installation, utilising a weatherproof polyurethane adhesive ensures that the long lasting benefits of your SEACORK deck will be retained year upon year.

Composition

45% Suberin: a complex fatty acid, and the principal component of cork, responsible for its elasticity.

27% Lignin: An integral part of the cell walls of Cork.

12% Polysaccharides: The part contributing to the definition of the texture of cork.

6% Tanins: Determining the characteristic colour.

5% Céroïdes: The hydrophobic part which helps to ensure the impermeability.

5% Various: Minerals, water, glycerin and others

Cork, the principal component of **Seacork**[®] is a prime-subset of generic cork tissue, harvested for commercial use primarily from the Cork Oak tree, *Quercus suber*.

Cork is a vegetal material, composed of micro cells, generally in polyhedral form, with the intercellular spaces filled with a gas, whose composition is identical to air.

The season of “barking” begins in July and is completed in September. The bark is detached with great care in order not to affect the phellogenic layer (the tissue or secondary meristem), which gives rise to the new cork tissue.

The first stripping of cork from the young trees is only carried out when it is at least 25 years old, and the circumference of the trunk reaches 70 cm. Moreover, the harvesting of cork from a tree will only be carried out every 9 years thereafter.

The special characteristics of cork and its many applications are due to the honeycomb structure of this material and the nature of the cellular membranes. Cork is resistant to wear, impermeable, elastic and yet stable in size, with a remarkable capacity for heat insulation and vibration suppression.

Ecological Aspect

a. **Eco Friendly**

Cork in itself is recyclable, biodegradable and renewable. In addition, the cork forests provide a valuable habitat for birds and other animals being home to many species, including the wild boar and rare birds such as the Black Stork and the Imperial Eagle. The cork oak also helps protect the soil from erosion, and with almost nothing wasted, each part of the cork tree serves an ecological or economic purpose.

b. **Sustainability**

The cork forests of Portugal are a carefully protected resource with strict regulation of the growth and management of the trees.

Currently, Portuguese law bans the cultivation of forest groves on hillsides, uphill from water courses or where tilling may excessively loosen the soil. It is also illegal to harvest the bark on trees less than 25 years old or fell a cork oak other than for essential forest thinning or if the tree is dilapidated from age.

Once mature (> 25 years old), the cork can only be harvested every nine years.

New trees are presently being planted at twice the rate at which the old trees are dying.

c. **WWF Carbon Footprint report**

Safety

Safety is of prime importance when aboard any vessel. Non-abrasive **Seacork**[®], combining its natural cushioning properties with its non-slip attributes, provides a firm footing and a soft impact whatever the conditions.

- a. Naturally non slip, with a traction rating of 15 dN/cm², stops you from sliding around your boat, and significantly improves safety on board.



- b. Its slip resistant properties are retained even when wet, making **Seacork**[®] the perfect choice for your boat, and giving you a sure-footing in all conditions.



- c. Relieving the impact on your joints and knees when moving around on deck, cork is a natural shock absorber with a compressibility of 15-20%. When the cork is subjected to pressure, the gas in the cells is compressed and volume reduces considerably. When released from pressure, **Seacork**[®] recovers very rapidly to its original shape. These unique shock-absorbing properties ensure that your decking is more comfortable to walk and stand on
- d. If you have ever kneeled down on a deck, then you will no what we mean! Even with its slip-resistant properties, **Seacork**[®] is non-abrasive – easy on your sailing gear as well as your skin!

Performance

The lightweight material, both durable and weather resistant, makes **Seacork**[®] the perfect choice for your marine application. From the competitive, extreme sports enthusiast to the amateur boat devotee, we have a product that will suit your requirements.

- a. Perfect for saving weight, without compromising on safety, **Seacork**[®] has a density of just 400 Kg/m³, which means that a plate measuring one metre square (in 8mm thick material) weighs just 3.2kg – Less than 2/3rd of a similar sized piece of teak!



- b. Virtually impervious to all chemicals normally associated with marine use, as well as nail polish, and high heels! Durable **Seacork**[®] is impact resistant with amazing recovery properties. You are ensured a lifelong dent-free, stain-free surface, unmatched by any traditional or non traditional decking material.
- c. Cork contains a natural substance called suberin. Suberin is a waxy type of substance that makes the cork impervious to liquids and the cork will not rot if it is exposed to water and is weather-resistant.



- c. **Seacork**[®] remains stable at temperature extremes, and with a Specific Heat measured at > 1500 J/(Kg K), provides a comfortable and safe footing in all weathers.

Natural attributes

The appeal of this natural product extends further than just aesthetics. It is strong and durable, yet has a density of only 400 Kg/ m³ (An 8mm thick plate, 1 metre square weighs only 3.2kg!).

Seacork[®] is soft and comfortable underfoot, even in the blazing sunshine with its low thermal conductivity and, in fact, remains stable at extreme temperatures at both ends of the scale.

- a. Both strong and durable, **Seacork**[®] will stand up to the rigours of a voyage, retaining its beauty year on year.
- b. The captive air in cork cells makes it a natural insulator - Cork is probably one of the oldest insulation materials used commercially, providing both sound and heat insulation properties:
 - i. Thermal conductivity 0.05/0.06 W/(m K)
 - ii. Thermal diffusivity < 1.60.10⁻⁷ m²/S
 - iii. Specific Heat > 1500 J/(Kg K)

This "air cushion" of cork enables it to absorb vibration and deaden sound.

- c. With a compressibility ratio of 15-20%, cork returns to its original shape time after time.
- d. Soft under foot and non-slip when wet, this superior product, combining its natural cushioning properties with its non-slip surface, provides the safest of surfaces underfoot imaginable.
- e. Who can deny the natural beauty of cork? Each plate of **Seacork**[®] is unique, made up from the many different shades of Cork. Its aesthetic appeal, designed and tailored to your individual requirements, will give you long lasting pleasure.



Versatility

- a. Available in plates or strips, with or without grooves. See our price list for the full range of product, or contact us if you have a special requirement in mind.



- b. Easy to install for the DIY enthusiast (full instructions for installation of **Seacork**[®] can be provided), or why not ask one of our professional fitters to carry out the work for you?
- c. Day to day maintenance is simple! A light wash with your usual non-abrasive detergent should keep your deck looking great for a very long time (We have found All purpose Yacht Ultraclean one of the best for your cork deck)
Occasionally, when the surface loses its shine and becomes smooth from wear and tear, a light sanding with fine sandpaper, followed by a single coat of surface protector will bring your decks back to their original beauty.
- d. Should your **Seacork**[®] ever need repair, a near-invisible restoration can be made, using a simple patch, cut to shape, and glued in place using our recommended adhesive. Contact us if you require any further advice or help for any specific repairs that you may need.
- e. Weight, lightness, durability, suppleness, and strength, makes **Seacork**[®] ideal for decking. Moreover, being able to fit it around the most complex of shapes, means that this highly flexible decking material is the perfect choice for installation on your boat.
- f. If you would like to commission a completely original and personalised design or artwork for any application of **Seacork**[®], then we can help. Whether it's creating a unique panel engraved with your boat name, or a simple geometric design such as a Compass Rose, our bespoke service will be able to fulfil your brief to a highly professional and creative standard.



- g. It isn't just the ideal material for your decks... there are many other applications for **Seacork**[®], including non-slip table tops, insulation for your refrigerator, to name but a few! Just let your imagination go!

