

## 1. Product Description

CorkSol SprayCork is a sustainable, multi-featured building coating material, suitable for the exterior and interior surfaces of walls and pitched roofs. It is spray-applied in a seamless thin layer.

The product is manufactured from organic cork granules blended with solvent-free resins, mineral fillers, stabiliser and inorganic additives.

The product's multiple technical features include thermal insulation, acoustic insulation, weather resistance, fire resistance, vapour permeability, durability and elasticity.

## 2. Uses

SprayCork is used as a decorative top coat and/or as a technical inter-layer on interior and exterior surfaces of walls and pitched roofs. Typical uses include: Exterior makeovers, cracked render repairs, coastal exterior coating, internal mould and condensation control, external or internal wall insulation on traditional solid walled properties, thermal bridge eliminator, acoustic insulation, fire separation, industrial roof repair, asbestos encapsulation, conservatory roof upgrade.

The application of SprayCork increases both the technical function and environmental credentials of many wall types and construction systems.

## 3. Product Data

Consistency	Highly viscous fluid
Texture	Granulated. Cork granule size: Fine 0.5-1.0mm, Extra Fine 0.1-0.3mm
Colour Range	28 standard colours derived from two colour bases (white and natural)
Storage	Between 0°C and 40°C. Shelf life 24 months from manufacture
Thickness of application	Minimum 4-6mm total thickness, applied in at least two layers
Yield	1.2 - 1.5Kg / sqm at 4-6mm thickness
Drying	Touch dry in 30 minutes, second layer can be applied when the whole surface is touch dry, fully dry in 12 hours (all based on 20°C)
Product Warranty	25 years for external application when applied by CorkSol Approved Applicator. Unlimited warranty for internal application when plaster skimmed over, when applied by a CorkSol Approved Applicator

#### 4. Technical Performance Data

Feature	Performance Description	Test Data
Sustainability	The major constituent is cork granules. Cork is the bark of the Mediterranean Cork Oak tree. No trees are felled when the cork is harvested. The harvesting of the bark causes the tree to absorb CO <sub>2</sub> at a faster rate as it regenerates its bark. SprayCork contains enough cork to offset 4Kg of CO <sub>2</sub> emissions per square metre applied. In total the world's cork forests absorb 20 million tonnes of CO <sub>2</sub> annually, provide great bio-diversity, resist desertification and provide some of the best paid and skilled agricultural work in Europe.	4Kg of CO <sub>2</sub> emissions offset for each square metre applied (Price Waterhouse Coopers Ecobilan (2008), Portuguese School of Agronomy (2006))
Thermal Performance	The product contributes to improved thermal performance by limiting heat loss through walls and roofs and improving air tightness. The U values achieved will depend on the overall construction. In in-situ tests, heat loss through solid stone walls is reduced by 30%.	30% heat loss reduction through solid stone walls (ISO EN9869-1:2014) Thermal conductivity 0.065W/mK (EN12667:2002)
Behaviour in relation to fire	The product's B Class fire rating means that it can be used on the exterior of buildings up to 18 metres high and on the interior of buildings of unlimited height	B-s1-d0 (EN13501:2007)
Vapour Permeability	The product is vapour permeable to Class 1 enabling traditional buildings which are designed to breathe through their walls to continue to do so after application	Equivalent air layer SD 0.6m - Class 1 (EN1504-2:2005)
Acoustic Performance	The product shows a good acoustic absorption coefficient across a broad range of audio frequencies, and up to 38dB overall reduction in sound pressure levels.	Up to 38dB reduction in sound pressure levels (EN10534:2001)
Flexibility / Elasticity	The product demonstrates strong performance in resisting cracking on impact or when the building moves or settles due to the product's high degree of elasticity and tensile strength.	Elongation to break 27-38%. EN1607 0.293MPa
Resistance to Condensation and Mould Growth	The product can limit the risk of surface and interstitial condensation, and the formation of mould, due to a combination of its thermal, vapour-open and anti-fungal properties. An assessment of additional ventilation requirement should be made in each case.	Internal wall surface temperature increases by up to 3°C on when applied to uninsulated solid walls (ISO9869-1:2014 in situ)
Weather Resistance	The product tends to shed water and will considerably reduce the amount of water penetrating through to the substrate when applied externally	
Impact Resistance	The product has adequate resistance to impact damage and strong performance in resistance to cracking on impact	
Resistance to Algal Growth	The product reduces the risk of algal growth due to cork's natural properties and the anti-algal additives contained in the product.	
Resistance to Sea Salts	The product demonstrates long lasting resistance to sea salts in the air due to the natural properties of cork in this regard. Hence the product is suitable for coastal use.	

## 5. Applications

Due to the specialised spray techniques and equipment required for successful application, CorkSol SprayCork should only be applied by CorkSol UK Approved Applicators.

All Applicators should refer to the SprayCork Product Manual to ensure correct application.

<b>Suitable Substrates (when prepared in line with the Application Manual)</b>		
<b>Exterior Walls</b>	<b>Interior Walls</b>	<b>Roofs</b>
Sand/cement render	Gypsum plaster	Stone and artificial stone slates
Sand/lime/cement render	Lime plaster	Brick tiles
In-situ or pre-cast concrete	Plasterboard	Steel and aluminium panels
Brick	In-situ or pre-cast concrete	Asbestos cement panels
Stone	Brick	Glass
Asbestos cement panels	Stone	Clear acrylic and polycarbonate sheets
Wood	Wood	
Metal sheets	Artex	
Render board/SIP panels	All substrates above when painted with gloss or emulsion paints	
Pebbledash/Roughcast		
All substrates above when painted with gloss or emulsion paints		

Application to many other substrates may be possible. Please refer to CorkSol UK Ltd directly for advice.

All substrates must be solid, sound, clean, dust-free, grease-free and dry, prior to application. Refer to the Product Manual for surface preparation.

The product is not suitable for application to silicone fillers or sealants.

The product is not suitable for use on exterior horizontal surfaces. Exterior surfaces must be at an angle of more than 4 degrees beyond the horizontal.

When used internally, the product may be skimmed over with gypsum plaster or lime plaster, once dry.