

REVECORK PROYECT PROFESIONAL

(Projected Cork)

DESCRIPTION

ReveCork Project Professional is a climate-control coating (energy savings indoors), thermal (reduces heat or cold transfer), acoustic (reduces airborne noise, impact noise, echo, and reverberation), elastic (withstands substrate contractions and expansions), multi-adhesive (adheres to all construction materials, including iron, galvanized steel, or aluminum), and ecological. It is formulated with vaporized natural cork particles, aerogel, and UV-resistant, elastic, breathable, and waterproof emulsions. It withstands rainwater, seawater, and saline mist, and protects against contamination from fungi, algae, and bacteria.

ReveCork Project Professional can be applied with projection machines (suitable for dense materials) or with a gravity gun and a continuous-flow air compressor of at least 3 kg. (In these cases, a specific sprayed-cork gun is recommended.)

Once applied, it forms a continuous, joint-free coating. On horizontal substrates, it becomes a walkable, non-slip surface highly resistant to atmospheric agents.

Available in ReveCork color charts or NCS/NOVA charts upon request. Ready-to-use product for exterior or interior application. Thermally recommended for medium-cold and hot climates in light colors.

TECHNICAL CHARACTERISTICS

Parameter	Value
Finish	Semi-textured matte
Density	$0.8 \pm 0.05 \text{ g/cm}^3$ (may vary depending on color)
Application temperature	Between 1°C and 50°C
Coverage	2 kg/m ²
Cork granulometry	P/F 0.2–0.5 mm — P/M 0.5–0.85 mm — P/G 1–2 mm
Dilution & preparation	Dilution 5–10% water; mechanically mix 3–4 minutes
Pot life	7 days (after adding water)
Touch dry	Approx. 180 minutes (18–20°C, depending on layer thickness)



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Temperature resistance	−40°C to 200°C
Specific heat	1880 KJ/kg·K
Solar absorption (Thermodynamics)	0.22
Optimized thermal resistance	0.1852 m ² ·K/W (calculated for 2 mm)
Surface temperature under radiation (UNE-EN ISO 12543-4:2011)	−4.4°C (each degree equals 6% energy savings)
Reaction to fire (UNE-EN ISO 11925-2:2011 / UNE-EN 13823:2012)	B-S1.d0 — Does not propagate fire
Marine & saline environment resistance (UNE-EN ISO 9227)	2000 hours
Accelerated aging (UNE-EN 11507)	Type 1, barely perceptible
Impact & shock resistance	Resistant, no breakage
Weighted sound absorption coefficient (UNE-ISO 354:2004)	aw = 0.10
Direct tensile adhesion (UNE-EN 1542:2000)	1.87 N/mm ² (average)
Liquid water permeability (UNE-EN 1062-3:2008)	6.54 × 10 ^{−3} kg/m ² ·h ^{0.5}
Water vapor transmission (UNE-EN ISO 7783:2012)	23.5458 V (g/m ² ·day), SD = 0.88 m
CO ₂ permeability (UNE-EN 1062-6:2003)	SD = 178 ± 4 m
VOC content	VOC-free
CO ₂ fixation (per kg applied)	1.49 kg CO ₂ eq compensated
Anti-condensation system	Eliminates thermal bridges, prevents condensation
Anti-saltpetre system	Retains and prevents saltpetre formation

PACKAGING AND COVERAGE

ReveCork Proyect Professional is supplied in 12 kg containers for colored versions and 11.28 kg in natural color.

Approximate coverage: 6–7 m² per container, depending on application.

APPLICATIONS

ReveCork Proyect Professional is a cork-based coating for vertical surfaces with exceptional properties (thermal insulation, acoustic insulation, anti-condensation, anti-saltpetre). These benefits arise from the natural chemical composition of cork.

Cork consists of dead cells filled with a gas similar to air, representing nearly 90% of its volume, giving it extremely low weight and compressibility. The cell walls—tiny airtight compartments—are mainly composed of suberin and cerin, substances that make cork fire-resistant, highly flexible, and practically rot-proof.

Modern technology has not been able to match or surpass it

Applications include:

- Thermal and acoustic insulation of building envelopes
- Prevents micro-cracks on façades; elasticity absorbs substrate movements
- Sealing small and medium-sized cracks
- Protection of new substrates from saltpetre, saline mist, and marine breeze
- Stabilization of saltpetre-contaminated substrates
- Elimination of condensation humidity
- Rust protection on metal structures
- Coating of beams and pillars
- Façade renovation and decoration
- Thermal insulation of industrial tanks to prevent temperature

INSTRUCTIONS FOR USE

SURFACE PREPARATION

· On new substrates or previously painted surfaces in good condition, clean or pressure-wash to remove dust, pollution, or residues.

Only if the substrate is concrete, apply a fine-particle acrylic primer such as FIXATIVE-100.

If cracks or flaking exist, repair with an exterior putty such as ReveCork Thermal Exterior Putty.



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Once the substrate is sound, apply ReveCork Proyect Professional until the required thickness is achieved.

· On defective or highly deteriorated substrates, pressure-wash at 150 bar. Once dry, repair with structural mortars R2 or R4 (for >5 mm thickness) or ReveCork Mortar C/G (for 1–3 mm applications).

Then apply a water-based primer such as FIXATIVE-200.

Afterwards, apply **ReveCork Proyect Professional** to the required thickness.

In all cases, respect drying times.

WARRANTY

ReveCork Proyect Professional is guaranteed for up to 10 years, depending on substrate and geographic location.

A product warranty requires an on-site technical prescription of the project, accompanied by the applicator company and the property owner.

PRECAUTIONS

ReveCork Proyect Professional must not be stored for more than 1 year, provided it is properly handled and protected from direct sunlight, frost, and humidity.

Empty containers must be disposed of at appropriate recycling points in compliance with European environmental regulations.