

UNDERLAY CORKROLL TECHNICAL SPECIFICATION

GENERAL DEFINITION AND PRODUCT COMPOSITION			
Definition	Low-density technical agglomerated cork made of medium grade cork granules of specified dimension and density, with the addition of a mono-component binder mix (modified polyurethane solvent-free pre-polymer). Microban® technology is used to deliver increased embedded continuous antimicrobial protection.		
Dimensions	Standard length: 10 m Standard width: 1 m Standard thickness: 2 mm		
Product structure and materials	Granulated cork 0.5-4.0 mm size and 65/75 Kg/m³ density. Polyurethane pre-polymer cork binder.		
Installation system	Rolls, loose lay or glued, in domestic and commercial applications.		
TECHNICAL DATA			
Length andwidth	EN ISO 24341	Nominal ± 1 %	
Overall thickness	ISO 7322	Nominal ± 0.15 mm	
Density	ISO 7322	180 Kg/m³ ± 5 %	
Tensile strength	ISO 7322	200 kPa	
Compression and Recuperation	ISO 7322	Compression:	45 %
		Recuperation:	75 %
Flexibility	EN ISO 24344	PASS	
Moisture content	EN 12105	8	
Resistance to boiling water	ISO 7322	No disintegration	
Formaldehyde emission	EN 12149	No formaldehyde-containing products are added during the manufacturing.	
Heavy metals and specific elements As, Ba, Cd, Cr, Hg, Pb, Sb, Se	EN 12149	None of these substances are added or have come in direct contact with the product during the manufacturing process.	
Release of vinyl chloride monomer	EN 12149	No polyvinyl chloride or products containing vinyl chloride are used during the manufacturing process.	
Thermal conductivity Thermal resistance	EN 12667	Thermal conductivity: 0.05 W/(m.K) Thermal resistance: (Typical values for agglomerated cork) 2 mm thickness – 0.04 m².K/W 3 mm thickness – 0.06 m².K/W 4 mm thickness – 0.08 m².K/W 6 mm thickness – 0.12 m².K/W	
Impact noise reduction Average value	EN ISO 10140-3	ΔL _W = 18 dB for 2.0 mm thickness ΔL _W = 19 dB for 4.0 mm thickness Test made with a similar agglomerated cork, under 6 mm laminated floating floor on a concrete slab	

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GENERAL DATA

Features	Safe and easy to handle and install; Effective reduction of impact and airborne sound; Increases the thermal comfort of the surface floor; Persistence of characteristics along time (lifetime); High fire resistance, without the release of toxic gases; Odourless; No harmful chemicals; Enhanced built-in lifetime antibacterial protection; Meets "Green building" requirements; Contains more than 90% (by weight) of natural cork, post-industrial recycled; Natural, biodegradable and recyclable product, made using raw materials from sustainable sources; Product certified FSC Controlled Wood APCER-CW-150508.
Packaging	Underlay cork rolls are dispatched in packages providing suitable identifying information and protection under normal transport and storage conditions. Packages shall be stored shielded from direct sunlight and humidity.
Typical uses	Due to the low thermal conductivity levels and effective sound insulation of cork, underlay cork rolls are commonly used under floating floors, wooden floors, ceramic tiles, natural stone, linoleum and vinyl floors, being a cost-effective solution for reducing impact noise problems. Cork rolls can be used in domestic and commercial applications contributing significantly to the acoustic and thermal performance of buildings, improving environmental comfort and reducing energy costs.
Compliance with the building regulations	The sound insulation of floors is a necessary requirement of the building regulations. When used with appropriate structural floor and ceiling constructions, cork underlay can meet the performance requirements for sound insulation of most of the national building regulations.
Health, Safety and Environment	The use of a natural and renewable raw-material and the possibility of total recycling of the product, make agglomerated cork underlay a reference in terms of ecology and environmental sustainability. Cork underlay contains no PVC, no softeners or other substances hazardous to health or the environment, namely: - Materials included in the SVHC list of REACH; - Substances considered to be PBT (persistent, bio-accumulative and toxic); - Materials classified as carcinogenic, mutagenic or toxic; - Substances considered to be endocrine disruptors.



Flooring by Nature reserve the right to make changes to material and structure to improve the quality or technical performance.