

REINVENTING FINAL COATING TO PROTECT YOUR HOUSE AS CORK PROTECTS THE TREE

TECHNICAL DATA SHEET

DESCRIPTION

- Final coating layer for façades and interiors

CHARACTERISTICS

- **CORKWALL** is composed of a mixture of selected cork particles, with different types of water-based resins, mineral charges, stabilisers and various additives.

SPECIFICATIONS

- **Appearance:** doughy
- **Colour:** natural; white; a range of colours
- **Specific weight:** 0,5-0,7 g/cm³
- **Fire classification/rating:** M1
- **Thermal conductivity** =0,058 W/m.K

APPLICATIONS

- **CORKWALL** adheres well to most common exterior building materials (mortar, metal, wood, PVC, expanded polystyrene, etc).
- It is intended for:
 - coating façades (providing thermal and acoustic insulation);
 - interior decoration

INSTRUCTIONS

- **CORKWALL** should be sprayed onto the wall, using appropriate machinery.
- Dry-to-touch: 30 minutes (20 °C room temperature).
- Total drying time: 12-24 hours (3-8mm layer)
- Performance: 1,4 - 1,8 kg/m² (thickness variation)
- Application temperature: -2 °C to 45 °C

RECOMMENDATIONS

The substrate must be perfectly dry, resistant and hardened. The surface where **CORKWALL** will be applied must be thoroughly clean, without debris or detaching parts and well consolidated. Building pathologies must be treated accordingly before applying **CORKWALL**.



STORAGE

- **CORKWALL** cannot be directly exposed to sunlight or to temperatures above 45 °C or below -2 °C.
- Shelf life: 12 months

PRODUCT PRESENTATION

- 12 kg package

R/S PHRASES AND RISK SYMBOLS

- S2 keep out of the reach of children.
- S7 keep container tightly closed.

The information and recommendations indicated in this technical data sheet reflect our current knowledge, laboratory tests and normal experience. For this reason, our guarantee is limited to the quality of the product supplied. Our company will not assume any liability arising from misuse of our products. Please refer to the warranty statement for further details.



Reinventing how cork engages the world

SUBJECT	STANDARD	RESULTS				
Fire classification in Accordance with UNE-EN 13501-5:2005	UNE-EN 13501-5:2005	Roof (t1)				
Thermal Conductivity	-	0,058±0,004 W/m.K (a 27 °C)				
Fire classification in Accordance with UNE-EN 13501-1:2007	UNE-EN 12667:2002	B-s2, d0				
Difference in colour after ageing in accordance with UNE-EN ISO 4892-3:2006 (250 hours)	UNE-EN ISO 4892-3:2006	Color	ΔE			
		Red	1,91			
		Green	3,98			
		Orange	5,54			
Determination of liquid water permeability	UNE-EN 1062-3:2008	0,12±0,01 kg/(m ² .h0,5)				
Determination of water vapor transmission properties	UNE-EN 1 2086:1998	0,01 m				
Laboratory measurement of sound absorption (in a reverberation room)	NP EN ISO 354	0,11 (500Hz)	0,14 (630 a 800Hz)			
Pull-Off Test for Adhesion	NP EN ISO 4624:2004	1 Mpa, 10% A/B, 90% B				
Determination of the mechanical resistance of different materials coated with CORKWALL after conditioning at -2 °C	NP EN ISO 4624:2004	Support	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation	
		Concrete slab	0,45	0,84	85,0%	
		EPS	0,25	0,52	108,7%	
Determination of the mechanical resistance variation of concrete coated with CORKWALL after conditioning at (-4) °C	NP EN ISO 4624:2004	Pull-off Strength (Room Temp) - MPa	Pull-off Test (after conditioning and curing at -2 °C) - MPa	Pull-off Test (after conditioning and curing at -4 °C) - MPa		
		0,45	0,84	0,78		
Determination of the mechanical resistance of different materials coated with CORKWALL after salt spray test	NP EN ISO 9227:2011 and NP EN ISO 4624:2004	Support	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation	
		Concrete slab	0,45	0,7	53,2%	
		EPS	0,25	0,57	132,0%	
Determination of the mechanical resistance of different materials coated with CORKWALL after exposure to filtered xenon-arc radiation	EN ISO 11341:2004 and NP EN ISO 4624:2004	Support	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation	
		PVC	1,27	1,4	10,5%	
		Concrete slab	0,45	1,18	158,6%	
Determination of the specific heat of CORKWALL coating material	-	1,979 J/(g.K)				
Determination of slip resistance by means of the pendulum test	NP EN 14231:2006	Support	Slip resistance value in wet conditions	Slip resistance value in dry conditions	Decrease	
		Concrete	84	55	34%	
		EPS	89	55	39%	
		Asbestos Cement	67	58	13%	
		Wood	86	56	34%	
		Zinc	85	55	35%	
Determination of the mechanical resistance of different materials coated with CORKWALL submitted to hydrothermal cycles (heat-cold)	NP EN ISO 4624:2004	Support Material	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation	
		EPS	0,25	0,32	29,1%	
		Concrete slab	0,45	0,78	71,6%	
		PVC	1,27	1,51	18,9%	
Analysis of the evolution of heat transfer through systems with and without coating CORKWALL	-	Specimen	Heat Transfer Resistance			
		EPS+Zinco (with and without CORKWALL)+EPS	Higher with CORKWALL			
		EPS+MDF (with and without CORKWALL)+EPS	Higher with CORKWALL			
Determination of the mechanical resistance of different materials coated with CORKWALL exposed to condensation - water atmosphere	NP EN ISO 4624:2004	Support Material	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation	
		EPS	0,25	0,4	61,0%	
		Concrete slab	0,45	0,49	7,9%	
Test for External Fire Exposure in roofs. Test 1: Burning Torch Method, in Accordance with UNE-ENV 1 187:2003	UNE-ENV 1187:2003	External fire spread	Fire Penetration			
		NO	NO			
Reaction To Fire Test in Accordance with UNE-EN 13823:2002 and UNE-EN ISO 11925-2:2002	UNE-EN ISO 11925-2:2002	THP600 (MJ)	FIGRA 0,2MJ (W/s)	FIGRA 0,4MJ (W/s)	TSP 600S (m²)	SMOGRA (m²/s²)
		1,72	110,71	78,44		
		LFS	DROPT≤10s	DROPT>10s	153,47	30,69
		< to the edge	No	No		
Measurement of Surface Temperatures and Heat Flow Under Radiation	UNE-EN ISO 12543-4:1998		Fibre cement without coating	White Cork 14	White Cork 18	Natural Cork 10
		Exposed surface temperature (°C)	36,7	35,3	32,9	36,7
		Unexposed surface temperature (°C)	35,2	30,7	27,8	28,6
		Heat flow (W/m²)	237,4	123,3	99	166,2
Measurement of Surface Temperatures and Heat Flow Under Radiation	UNE-EN ISO 12543-4:1998		Fibre cement without coating	Natural Cork 13	White Cork 13	Natural Cork 10
		Exposed surface temperature (°C)	42,9	41,6	41,3	43
		Unexposed surface temperature (°C)	37,3	35,5	35	37,1
		Heat flow (W/m²)	122,2	64,4	65,8	100,1