

## Technical Data Sheet



Granulated Cork

Corkwall is applied by projection

Final texture and visual



### PRODUCT 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	Colour	Specific weight	Fire classification/ rating	Thermal conductivity
doughy	natural; white; a range of colours	0,5-0,7 g/cm <sup>3</sup>	M1	=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/m<sup>2</sup> (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 after production: 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.

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/(m2.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 Strenght (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		
		Support	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation	
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	Concrete slab	0,45	0,7	53,2%	
		EPS	0,25	0,57	132,0%	
		Support	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation	
Determination of the mechanical resistance of different materials coated with CORKWALL submitted to filtered xenon-arc radiation	EN ISO 11341:2004 and NP EN ISO 4624:2004	Concrete slab	1,27	1,4	10,5%	
		EPS	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 slab	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	Decrease	
		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 1 187:2003	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		
		< to the edge	No	No	153,47	30,69
			Fibre cement without coating	White Cork 14	White Cork 18	Natural Cork 10
Measurement of Surface Temperatures and Heat Flow Under Radiation	UNE-EN ISO 12543-4:1998	Exposed surface temperature (°C)	36,7	35,3	32,9	30,69
		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



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.

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