

## Flame Spread and Smoke Test CAN/ULC \$102-18

Flame spread 0 Smoke Developed 10 out of 450

Vapor Test ASTM E96/E96M-16

Water Vapor Transmission - 375.78 g/day.m<sup>2</sup>

Salt Test ASTM B117-18

No visible signs of damage - 0.5%

**Combustibility Test** ULC \$135:1992

O flame spread no particulate - Thermal Cork Shield Melts

Fungi Test ASTM G21-2015

The **Vipeq Spray Cork F08** received an average growth rating of 0 meaning there were **No Growth (0%)**.





SUBJECT	STANDARD		RESU	JLTS	
Classification in Accordance with	UNE EN 13501-5:2005		BROOF(t1)		
UNE-EN 13501-5:2005 Thermal Conductivity	Association of the ethology the space.	0.068±0.004 W/mK (a 27 °C)			
Classification In Accordance with Une-EN	UNEEN 13501 1:2007		\$99.0 S		
13501-1:2007	ONEEN 13301 1.2007	0.152	B-s2		
Difference in color after aging in accordance	UNE-EN ISO 4892-3:2006	Color Red		ΔE 1.91	
with UNE-EN ISSO 4892-3:2006 (250 hours) Determination of liquid water permeability		Green		3.98	
		Orange		5.54	
Determination of liquid water permeability	UNE-EN 1062-3:2008	0.12+0.01 kg/(m\h0.5)			
Determination of water vapor transmission	UNE-EN 1 2086:1998	0.01 rr.			
properties  Laboratory measurement of sound		0.11 (500Hz) 0.14 (630 a 300Hz)			
absorption (in a reverberation room)	NP EN ISO 354	0.11 (	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BASE TENEDEST STORES	a 300Hz)
Pull-Off Test for Adhesion	NP EN ISO 4624:2004 NP EN ISO 4624:2004	1 Mpa, 10% A/B, 90% B			
Determination of the mechanical resistance of different materials coated with Corkshield® after conditioning at -2° C		Support	Pull-off Test before cycles - MPa	Pull-off Test after cycles-MPa	Variation
		Concrete slab	0.45	0.84	85.00%
		EPS	0.25	0.52	108.70%
Determination of the mechanical resistance variation of concrete coated with Corkshield® after conditioning at (-4)°C	NP EN ISO 4624:2004	Pull-off Strength (Room	Pull-off Test (after	Pull-offTest (after	conditioning and
		Temp.) - MPa	conditioning and curing	curing at -4°C) - MPa	
		0.45	at -2 <sup>C</sup> C) - MPa 0.84		0.78
Determination of the mechanical resistance of different materials coated with Corkshield®after salt spray test	NP EN ISO 9227:2011 and NP EN ISO 624:2004	V221	Pull-off Test before	Pull-off Test after	59. 0.011
		Support	cycles-MPa	cycles - MPa	Variation
		Concrete slab	0.45	0.7	53.2%
		EPS	0.25	0.57	132.0%
Determination of the mechanical resistance	EN ISO 11341:2004 and NP ENISSO 4624:2004	Support	Pull-off Test before cycles - MPa	Pull-off Test after cycles - MPa	Variation
of different materials coated with Corkshield® exosure to filtered xenon-arc radiation		PVC	1.27	1.4	10.50%
exosure to intered xerion-arc radiation		Concrete slab	0.45	1.18	158.60%
Determination of the specific heat of Corkshield® coating material			1.97	9 J/(g.K)	
Determination of slip resistance by means of the pendulum test		Support	Slip resistance value in	Slip resistance value in dry	Decrease
		Concrete	wet conditions 84	conditions 55	34%
	NPEN 14231:2006	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 Corkshield® submitted to hydrothermal cycles (heat-cold)	NPEN ISO 4624:2004	Support Material	Pull-off Test before cycles-MPa	Pull-off Test after cycles - MPa	Variation
		EPS	0.25	0.32	29.10%
		Concrete slab	0.45	0.78	71.60%
		PVC	1.27	1.51	18.90%
Analysis of the evolution of heat transfer through systems with and without coating with Corkshield®		Specimen Heat Transfer Resi EPS+Zinco (with and without CorkShield®)+EPS Higher with Corksh			
			thout CorkShield*)+EPS	Higher with Higher with	
Determination of the mechanical resistance of different materials coated with Corkshield* exposed to condensation - water atmosphere  Test for External Fire Exposure in roofs. Test 1:	NPEN ISO4624:2004	The second of the second	Pull-off Test before	Pull-offTest after	1000 1 4000
		Support Material.	cvcles - MPa	cvcles - MPa	Variation
		EPS	0.25	0.4	61.00%
		Concrete slab	0.45	0.49	7.90%
Burning Torch Method, in Accordance with UNE- ENV1 187:2003	UNE-ENV 1187:2003	External f	ire spread	Fire Pen	etration
			NO		NO
Reaction To Fire Test in Accordance with UNEEN 13823:2002 and		THP600 (MJ)	FIGRA 0.2MJ (W/s)	FIGRA 0.4MJ (W/s)	TSP 600S SMOGRA
	UNEEN IS011925-2:2002	1.72	110.71	78.44	(m²) (m²/s²)
		LFS	DROP T ≤ 10s	DROP T>10s	153.47 30.69
UNE EN ISSO 11925-2:2002		a to the color	NI-		
UNE EN ISSO 11925-2:2002		< to the edge	No Fibre cement without	No White Cark 14	White Carles No. 12 12
		#I	541.0001	No White Cork 14	White Cork18 Natural Cork 10
Measurement of Surface Temperatures and Heat Flow Under Radiation	UNE EN ISO 12543-4:1998	Exposed surface temperature CC)	Fibre cement without		White Cork18 Natural Cork 10
Measurement of Surface Temperatures and	UNE EN ISO 12543-4:1998	Exposed surface temperature CC) Unexposed surface	Fibre cement without coating	White Cork 14	90.000 (ASPC 445-0-4-2) 100-100 (CASS 20000-4-4
Measurement of Surface Temperatures and	UNE EN ISO 12543-4:1998	Exposed surface temperature CC)	Fibre cement without coating 36.7	White Cork 14 35.3	32.9 36.7 27.8 28.6
Measurement of Surface Temperatures and	UNE EN ISO 12543-4:1998	Exposed surface temperature CC) Unexposed surface temperature (°C)	36.7 35.2 237.4 Fibre cement without coating	White Cork 14 35.3 30.7	32.9 36.7
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Measurement of Surface Temperatures and		Exposed surface temperature CC) Unexposed surface temperature (°C) Heat flow (W/m*)  Exposed surface temperature CC)	36.7 35.2 237.4 Fibre cement without coating	White Cork 14 35.3 30.7 123.3	32.9 36.7 27.8 28.6 99.0 166.2
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Measurement of Surface Temperatures and Heat Flow Under Radiation  Measurement of Surface Temperatures		Exposed surface temperature CC) Unexposed surface temperature (°C) Heat flow (W/m*)  Exposed surface temperature CC)	36.7 35.2 237.4 Fibre cement without coating	White Cork 14  35.3  30.7  123.3  White Cork 14  41.6	32.9 36.7 27.8 28.6 99.0 166.2 White Cork18 Natural Cork 10 41.3 43.0