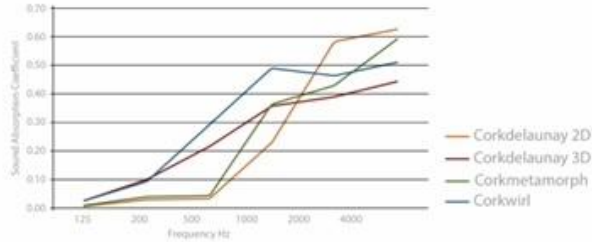


co•flora

Tech info- All products

Cork panels



INDOOR AIR EMISSIONS



THERMAL INSULATION DETAILS

Thermal conductivity coefficient_ 0,40 W/mK
Values of Thermal Insulation (R e m² k/W and K in W/m²k) 50mm
R = 1.250 ; W = 0.800
Density_ 140 Kgs / m³
Fire Class_E

SOUND ABSORPTION DETAILS

This graph shows the absorption coefficient of our cork panels with different thickness, at any given audio frequency.
Our products reduce sound reflections, making it a great sound absorber. A perfect solution for residential buildings, restaurants, hotels and offices.
Results in accordance with ISO 11654:1997
aw = 0.45

Dimensões: 1000 x 500 mm

Densidade: 140 a 160 Kg/m³

thickness (mm)	Area p/ pack.. (m ²)	Preço (€/m ²)	Preço (€/m ²) com verniz
10	15,0	25,50	33,50
15	10,0	31,50	39,50
20	7,5	33,00	41,00
25	6,0	39,38	47,38
30	5,0	46,35	54,35
35	4,5	53,55	61,55
40	4,0	60,00	68,00
50	3,0	75,00	83,00
60	2,5	90,00	98,00
70	2,0	105,00	113,00
80	2,0	120,00	128,00
90	2,0	135,00	143,00
100	1,5	150,00	158,00
120	1,0	180,00	188,00

ICB Products – Technical Data Sheet

Density	from 100 to 120 Kg/m ³
Thermal conductivity coefficient	0,040 W/mk
Thermal diffusion	$1,4 \times 10^{-7} / 1,9 \times 10^{-7} \text{ m}^2/\text{s}$
Flexural rupture strength	from 1,4 to 2,0 Kgf/cm ²
Usage temperature	from -180°C to +120°C
Dimensions	1000x500mm
Thicknesses	from 10mm to 300mm
Fire class	Euroclasse E
Fire class – ETICS System	B-s1,d0
Certification	CE EN13170, COV A+, DAP HABITAT

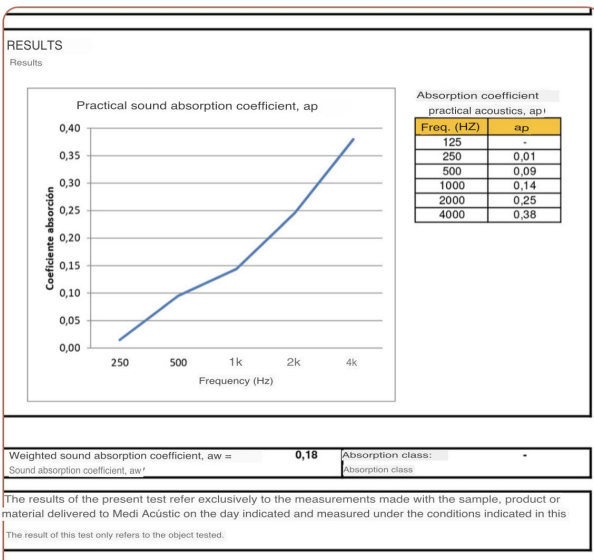
Insulation Values

(R in m² k/W and K in W/m² K)

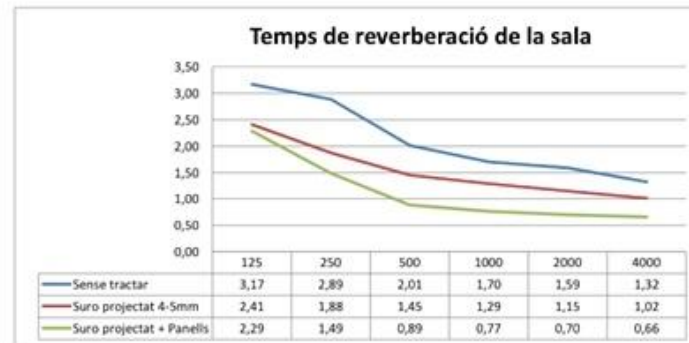
Thickness	R	K
40mm	1,000	1,000
50mm	1,250	0,800
60mm	1,500	0,667
80mm	2,000	0,500

Spray Cork Paint

REVERBERANCE TEST 3mm - 4mm



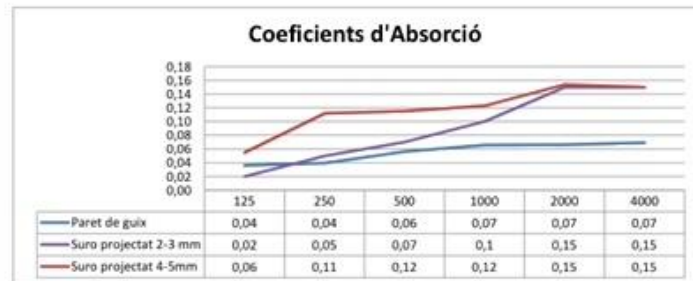
Resultats del mesurament realitzat a la masia de Santa Maria d'Oió



Conclusions:

Amb el suro projectat s'ha reduït significativament la reverberació de la sala

Amb sales molt reverberants la projecció de suro només en el sostre ens ajuda, però no és suficient per a arribar a valors òptims de reverberació.

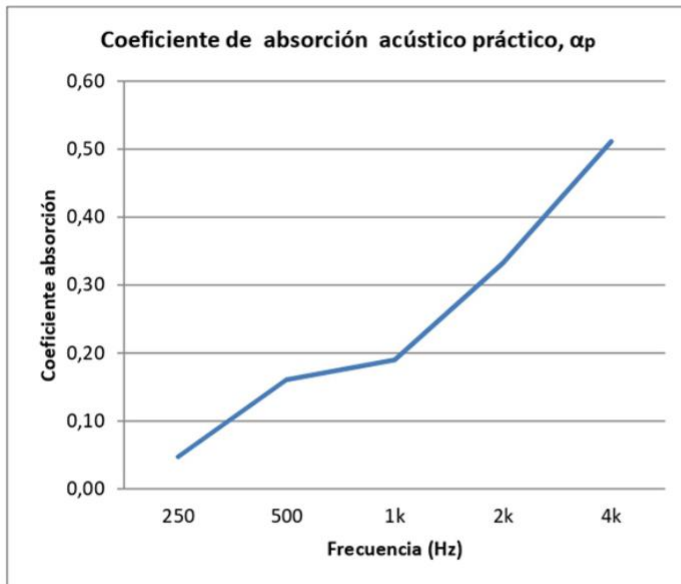


Conclusions:

Projectant 4-5mm una paret de guix obtenim el doble de l'absorció actual en la superfície
Augmentant el gruix de la projecció es millora l'absorció a baixes i mitges freqüències, però es manté a altes.
Recomanable per a substituir superfícies molt reflexants: formigó llis, ceràmica etc...

RESULTADOS

Results



Coefficiente de absorción acústica práctico, α_p

Freq. (HZ)	α_p
125	-
250	0,05
500	0,16
1000	0,19
2000	0,33
4000	0,51

Coefficiente de absorción sonora ponderado, α_w = 0,25

Sound absorption coefficient, α_w

Clase de absorción:

-

Absorption class

os resultados del presente ensayo se refieren exclusivamente a las mediciones realizadas con la muestra, producto o material entregado a Medi Acústic el día a señalado y medido en las condiciones indicadas en este

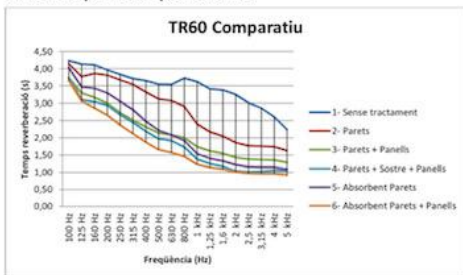
The result of this test only refers to the object tested.

5. AVALUACIÓ AMB TRACTAMENT

Es torna a realitzar la mateixa simulació però substituint els paraments corresponents per suro projectat o bé per panells absorbents, introduint freqüencialment el seu corresponent coeficient d'absorció.

Els resultats exhaustius es troben descrits en els corresponents annexes.

5.1. Gràfic comparatiu del temps de reverberació



5.2. Taula comparativa

Paràmetre	Valors recomanables	1-Sense Tractament	2-Parets	3-Parets + Panells	4-Parets + Sostre	5-Parets Absorbents	6-Parets Absorbents + Panells
TRmid (Segons)	$1,0 \leq s \leq TR_{max} \leq 1,5 \text{ s}$	3,58 s	2,83 s	1,99 s	1,74 s	1,94 s	1,49 s
STI / RASTI (%)	STI $\geq 55\%$	37,3%	44,0%	49,7%	54,0%	51,9%	56,4%

Summary:

Fire Index:

(Derived result of the test)

4.3

The examination is accomplished in accordance with: Determination of the fire index (combustibility and smoke formation) according to the "Directives for the prescriptions on the fire police, materials and part of construction", Part B: Examination conditions, edition 1988 (with complements 1990, 1994, 1995 and 2005) of the "Vereinigung Kantonaler Feuerversicherungen" (VKF), Bundesgasse 20, Postfach 8576, CH-3001 Bern .

This test report has a validity period from 5 years.

The detailed test results can be found in the tables on the following pages.

Patrick Greiner
Head of Laboratory

Christian Kubainsky
Test and Head of Laboratory

Date: 2020-01-14

Our reference: PRS-KU

Report No.: 403568-19-0645-01

This Document consists of
2 Pages.
Page 1 of 2

The results in this report refer exclusively to the submitted samples. The sample name as well as additional data corresponds to the information provided by the customer. A further verification was not made. Copies of the entire report are permitted, whereas excerpts as well as its use for advertising purposes requires the express written approval of TÜV SÜD Schweiz AG.



Registered Office: Zürich
Trade Register Zürich:
CH-036.3.045.931-7
VAT ID No. CHE-115.162.623

Managing Board:
Stefan Bauer
Dr. Sven Wagner
Dr. Annik Nanchen

Telefon: +41 61 696 2501
Telefax: +41 61 696 7072
www.tuev-sued.ch
TUV®

TÜV SÜD Schweiz AG
Process Safety
Mattenstrasse 24
4002 Basel
Switzerland

PRESENTATION

- A thick, water-based, ready-to-use paste
- Density: $\geq 820 \text{ kg/m}^3$
- Solids content: $35.5 \pm 1 \%$
- Natural micro-rough appearance
- Choice of 24 colour shades - Option of creating new colours, depending on quantity
- Pleasant, temporary smell
- Easy-to-handle 12 kilo containers

TECHNICAL PROPERTIES

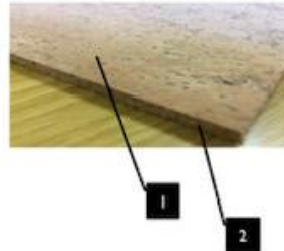
- Much improved thermal insulation thanks to heat diffusion in façades as well as interiors.
- Excellent breathability, ideal for damp resulting from capillarity or condensation.
- Total waterproofing.
- Excellent sound insulation properties:
 - By transmission
 - By resonance
 - By impact
- Extremely flexible.
- Excellent resistance to adverse weather, damp and UV rays.
- Anti-saltpetre solution.
- Excellent adherence to concrete, fibre cement, brick, tile, asphalt membrane, paving stones, metal, PVC (*) and glass. On other plastics, it is advisable to carry out adherence tests in advance.

- Ambient application temperature: -2°C to $+45^{\circ}\text{C}$.
- Recommended coat thickness, with a minimum of two coats: 1.5 mm (3 mm total).
- You can increase its soundproofing properties by applying more coats.
- Dry to the touch: 5 hours at 20°C .
- Totally dry: 12-24 hours (for a coat of 2-5 mm).
- Yield: $\pm 2.5 \text{ kg/m}^2$.
- Cleaning of tools: water only.

PROPERTIES	RESULTS	MEASUREMENT UNITS	METHOD
Fire performance	Euroclass Bs2d0	---	UNE-EN 13501-1
Ventilation/Breathability	75	%	Experimental
Waterproofing	100	%	Edward B. Grunau method
Compressive strength	≥ 15	kPa	MSZ EN 826:1997
Thermal conductivity	0.048	λ (kcal/h $^{\circ}\text{C m}$)	UNI 7745
Tensile strength	20N/5	cm	UNE 53112/98
Encapsulation of fibre cement/asbestos	Ideal		UNI 10686 - 10
Fracture elongation	11 to 33	%	UNE 53112/98
Resistance to immersion in seawater	Stable		7 days immersed in sea and salt spray
Accelerated ageing in salt spray chamber	5	years	UNE 104.242 1/95

Cork Wall floorings / Fabrics

- The cork floor tiles are designed to apply on the floor by gluing.
- It is supplied uncoated, can be applied varnish for coating.
- Dimensions: 300x600 mm; 300x300 mm; 600x450 mm
- Thickness: 4 – 8 mm
- Several Patterns
- Composition:
 1. Cork Veneer
 2. High-density agglomerated cork



Cork Wallpaper

BACKING COMPOSITION	CORK PAPER CHARACTERISTICS	
	Overall Thickness (mm)	Mass per unit area (g/m ²)
Nonwoven wallpaper 90 g/m ²	0,40 ± 0,10	180 ± 40

REFERENCES	CORK WALLPAPER PRICES					
	Retail prices		Wholesale EXW prices excluding taxes			
	50 cm roll 50 cm x 5 m Price per 5 meters roll	SQM Price	50 cm roll 50 cm x 10 m Price per 10 meters roll	SQM Price	100 cm roll 100 cm x 10 m Price per 10 meters roll	SQM Price
Premium Natural (ref. 100) & Patterns I	92,00 €	36,80 €	160,00 €	32,00 €	300,00 €	30,00 €
Colours* & Patterns II	120,00 €	48,00 €	190,00 €	38,00 €	360,00 €	36,00 €
Flecked Collection	189,00 €	75,60 €	325,00 €	65,00 €	615,00 €	61,50 €

1. Payment terms: Orders shipped only upon prepayment. Advance payment of at least 50%.

2. In case payment is made using **paypal**, a 5% fee will be applied.

3. Prices excluding **VAT (23%)** and **shipping costs**.

***excluding white, black, silver and gold.**

**All prices are subject to change without notice at any time.

Patterns I

fine and coarse grained (60F & 60C), 500, 1400, 1500, 1700, 1800, 1800G, 3100, 3100 A, 3100F, 4000, 4100, 4200, 4200A, 4200P, 4300, 4300A, 4500, 4700, 5200, carnival

Patterns II

400, 500T, 700, 900, 1000, 1100, 1600, 1800GSQ, 1900, 3200, 4400, 4800, 5000, 5100, 5300 200, 1200, 2000, 2100, 2900, 3000, 5400, 6200 Group IV - 2200, 2300, 2400, 2500, 2600, 2700, 2800, 3300, 3400, 3500, 3800, 3900, 4600, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6300, 6400

REFERENCES	CORK FABRIC PRICES /SYNTHETIC BACKINGS				
	Wholesale EXW prices excluding taxes				
	Square Meter 100 cm x 100 cm (1.1 square Yd)	Linear Meter 100 cm x 140 cm (1.1 yd x 1.5 yd)	Double Sided Linear Meter 100 cm x 140 cm (1.1 yd x 1.5 yd)	Double Sided Linear Meter 100 cm x140 cm (1.1 yd x 1.5 yd)	
Ref. 100 Premium natural	22,60 €	31,64 €	58,10 €	69,61 €	
Ref. 100 gold/silver	29,00 €	40,60 €	76,02 €	89,32 €	
Ref. 100 White	37,00 €	51,80 €	98,42 €	113,96 €	
Ref. 100 Black	30,80 €	43,12 €	81,06 €	94,86 €	
Group 0 - ref. 50 textured natural, fine and coarse grained (60F & 60C), 300, 600					
	20,50 €	28,70 €	52,22 €	63,14 €	
Group I - 500, 800, 1400, 1500, 1700, 1800, 1800G, 3100, 3100 A, 3100F, 4000, 4100, 4200, 4200A, 4200P, 4300, 4300A, 4500, 4700, 5200, Carnival					
	21,95 €	30,73 €	56,28 €	67,61 €	
Group II - 400, 500T, 700, 900, 1000, 1100, 1600, 1800GSQ, 1900, 3200, 4400, 4800, 5000, 5100, 5300					
	24,70 €	34,58 €	63,98 €	76,08 €	
Group III & COLORS (ref. 100) (excluding white, black, silver and gold), 200, 1200, 2000, 2100, 2900, 3000, 5400, 6200					
	27,20 €	38,08 €	70,98 €	83,78 €	
Group IV - 2200, 2300, 2400, 2500, 2600, 2700, 2800, 3300, 3400, 3500, 3800, 3900, 4600, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6300, 6400					
	28,30 €	39,62 €	74,06 €	87,16 €	
METALLIC BACKING	Price differences for "Metallic Backings"				
	Square Meter 100 cmx100 cm (1.1 square Yd)	Linear Meter 100 cmx140 cm (1.1 yd x 1.5 yd)		Double Sided 1.6 mm 100 cmx140 cm (1.1 yd x 1.5 yd)	
Metallic Backing (best refs. 300, 600, 800 and 2100) (140cm w	8,40 €	11,76 €	---	---	
PAINTING SYNTHETIC BACKINGS	Prices for ref. 600 in "Metallic Backings"				
	Ref. 600 natural gold metallic	28,90 €	40,46 €	89,01 €	
	Ref. 600 black gold metallic	37,10 €	51,94 €	114,27 €	
	Ref. 600 colored gold metallic	33,50 €	46,90 €	103,18 €	
PAINTING SYNTHETIC BACKINGS	Extra for coloring				
	Square Meter 100 cmx100 cm (1.1 square Yd)	Linear Meter 100 cmx140 cm (1.1 yd x 1.5 yd)	Double Sided 100 cm x140 cm (1.1 yd x 1.5 yd)	Double Sided 100 cm x 140cm (1.1 yd x 1.5 yd)	
	PAINTING	4,60 €	6,44 €	12,88 €	12,88 €
	Painting gold/silver	6,40 €	8,96 €	17,92 €	17,92 €
	Painting white	14,40 €	20,16 €	40,32 €	40,32 €
	Painting black	8,20 €	11,48 €	22,96 €	22,96 €
	Washed Effect (adds to painting)	2,50 €	3,50 €	7,00 €	7,00 €

1 MOC: minimum order 10 linear meter yards per reference/backing

References	CORK FABRIC PRICES / PLANT- BASED BACKINGS					
	wholesale EXW prices excluding taxes					
	OEKO_TEX CERTIFIED BACKINGS			*ORGANIC COTTON BACKINGS		
	Square Meter 100 cm x 100 cm (1.1 square Yd)	Linear Meter 100 cm x 160 cm (1.1 yd x 1.75 yd)	Double Sided Linear Meter (0.7 mm /0.9 mm) 100 cm x 160 cm (1.1 yd x 1.75 yd)	Square Meter 100 cm x 100 cm (1.2 square Yd)	Linear Meter 100 cm x 160 cm (1.1 yd x 1.75 yd)	Double Sided Linear Meter (0.7 mm /0.9 mm) 100 cm x 160 cm (1.1 yd x 1.7 5 yd)
Ref. 100 Premium natural	27,10 €	43,36 €	79,52 €	32,10 €	51,36 €	93,22 €
Ref. 100 gold/silver	33,50 €	53,60 €	100,00 €	38,50 €	61,60 €	113,70 €
Ref. 100 White	41,50 €	66,40 €	125,60 €	46,50 €	74,40 €	139,30 €
Ref. 100 Black	35,30 €	56,48 €	105,76 €	40,30 €	64,48 €	119,46 €
Group 0 - ref. 50 textured natural, fine and coarse grained (60F & 60C), 300, 600	25,00 €	40,00 €	72,80 €	30,00 €	48,00 €	86,50 €
Group I - 500, 800, 1400, 1500, 1700, 1800, 1800G, 3100, 4000, 4100, 4200, 4200A, 4200P, 4300, 4500, 4700, 5200, Carnival	26,45 €	42,32 €	77,44 €	31,45 €	50,32 €	91,14 €
Group II - 400, 500T, 700, 900, 1000, 1100, 1600, 1800GSQ, 1900, 3200, 4400, 4800, 5000, 5100, 5300	29,20 €	46,72 €	86,24 €	34,20 €	54,72 €	99,94 €
Group III & COLORS (ref. 100) (excluding white, black, silver and gold), 1200, 2000, 2100, 2900, 3000, 5400, 6200	31,70 €	50,72 €	94,24 €	36,70 €	58,72 €	107,94 €
Group IV - 2200, 2300, 2600, 2800, 3300, 3400, 3500, 3900, 5500, 6000	32,80 €	52,48 €	97,76 €	37,80 €	60,48 €	111,46 €
PAINTING PLANT-BASED BACKINGS	Square Meter 100 cm x 100 cm (1.1 square Yd)	Linear Meter 100 cm x 160 cm (1.1 yd x 1.75 yd)	Double Sided 100 cm x 160 cm (1.1 yd x 1.75 yd)			
PAINTING	4,60 €	7,36 €	14,72 €			
Painting gold/silver	6,40 €	10,24 €	20,48 €			
Painting white	14,40 €	23,04 €	46,08 €			
Painting black	8,20 €	13,12 €	26,24 €			
Washed Effect (adds to painting)	2,50 €	4,00 €	8,00 €			

1. **MOQ:** minimum order, 10 linear meter/yards per reference/backing.

2. **Payment terms:** Orders shipped only upon prepayment. Advance payment of at least 50%.

3. In case payment is made using **paypal**, a 5% fee will be applied.

4. Prices excluding **VAT (23%)** and **shipping costs**.

COLORS: Almost all patterns can be painted, these values apply for Painting a square meter and will add to the price of the reference.

* **PLEASE** note that prices for organic backings are only reference prices, they depend on the width, the type of fabric and the volatility of the market price of organic cotton. Please ask for more info before ordering. There are better prices for orders over 100 linear meters/yards

**All prices are subject to change without notice at any time.

***Check our backings' info sheet and catalog, where you'll find more info about the backings and photos of colors and patterns.





PROPERTY	VALUE
Density, kg m^{-3}	120-180
Thermal conductivity, $\text{W m}^{-1} \text{ } ^\circ\text{C}$	0.045 (cork) 0.025 (air)
Acoustic resistance, $\text{kg m}^{-2} \text{ s}^{-1}$	1.2×10^{-5}
Friction coefficient	0.35-0.76 (cork/glass) 0.77-0.97 (cork/cork)
Resistance to compression, kPa	336
Permeability to water vapour, mg m-h Pa^{-1}	487×10^{-4}



Create & Be Eco

co • flora

Www. Coflora.org Tel. +31 234 0424 Email: askcork@coflora.org