

# בשורה לעולם הבנייה הירוקה, שעם טבעי בהתזה לחיפויים חיצוניים



isralak.co.il

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- ☎ 04-8767728
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# Isolate by COVERLINK

## תאור המוצר

ישראלק מביאה בשורה בתחום הבנייה הירוקה למבנים פרטיים ומוסדיים-פתרון יעיל וידידותי למשתמש ולסביבה. ציפוי דקורטיבי על בסיס שעם טבעי ליישום בהתזה, נוסחה מיוחדת להפחתת מעבר חום/קור לאזור המטופל, שבירת הגשר התרמי ויצירת חיסכון בצריכת האנרגיה. תכונותיו הטבעיות מקנות לו יכולות איטום ועמידות גבוהה בתנאי אקלים קשים לאורך הזמן. ניתן ליישום על גבי תשתיות שונות כגון טיח, בטון, גבס, מלט, לבנים, מתכת וכו'.

**אז למה בעצם שעם? שעם הוא אחד המבודדים התרמיים הטובים ביותר שקיימים, לשעם עמידות בפני מעבר חום גבוהה פי 30 מבטון.**

## יתרונות המוצר

- מוצר ידידותי לסביבה - (LOW VOC) בהיותו מוצר על בסיס מים, הוא אינו רעיל, מסוכן או דליק
- 100% ניתן למיחזור
- ניתן לגוון לפי דרישה
- הציפוי מעניק ממברנת איטום תרמית המעניקה הבדל בין 10-20°C
- ציפוי הידרופובי המונע חדירת מים
- חומר נושם המונע עיבוי
- עמידות באש לפי:  
-תקן ארופאי: Class Bs2, D0  
-תקן אמריקאי: ASTM E84:Class A



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- מקנה כיסוי למפרקים, סדקים ולקיבועים
- שכבה רציפה בעלת אלסטיות גבוהה המונעת היסדקות לאורך הזמן
- קל ליישום וללא צורך בהסרת הציפוי הקיים
- הציפוי מעניק עמידות בפני קרינת UV ובתנאי אקלים קשים לאורך הזמן
- בעל יכולת עמידות גבוהה בתנאים קורוזיביים לאורך הזמן
- הציפוי מעניק בידוד אקוסטי
- חומר יציב כימית בתנאי האיחסון והיישום הנדונים



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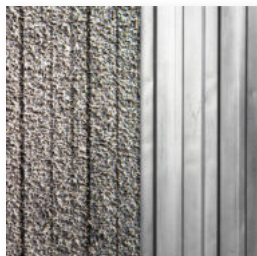
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הציפוי ניתן ליישום על גבי מגוון תשתיות שונות כגון טיח, בטון, גבס, מלט, לבנים וכו'



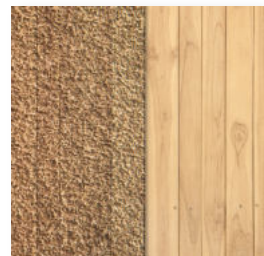
מתכת



לוחות בטון



אבן



עץ



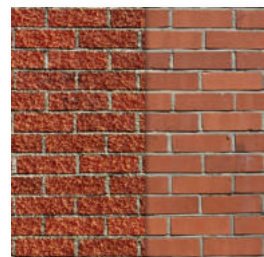
DENSGLASS  
 לוחות דנסגלאס



בלוקי בטון



EIFS  
 לוחות בידוד



לבנים  
 • צריכת החומר: 1-2 ק"ג/מ"ר  
 • עובי: 2-3 מ"מ



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Application on roofs  
and terraces

Indoor applications:  
Providing internal  
comfort and thermal  
protection.

Since 1980  
**ישראלק**  
אתה יודע במה אתה צובע

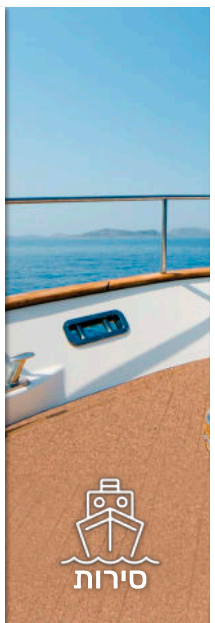
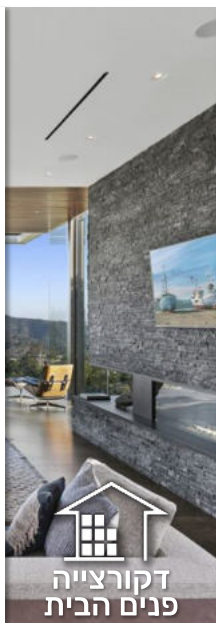
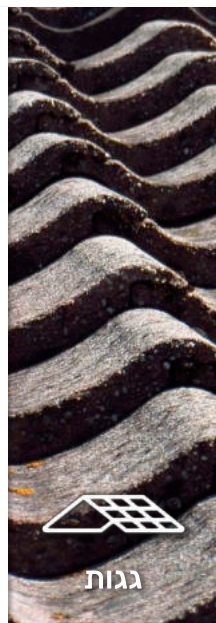
External walls: renovation  
and decoration of all sort  
of facades and surfaces.

In camera  
ventilated facades.

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## אפשרויות ליישום

העובדה שהציפוי ניתן ליישום על מגוון כ"כ רחב של תשתיות מקנה לו יכולת לתת פתרונות במגוון פרויקטים:



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## גוונים

ניתן לקבל את הציפוי במגוון רחב של גוונים, במרקם עדין או בינוני

### מרקם עדין:



חול טבעי   טבעי   לבן   לבבן   חול   חמר   אגוז לוז   אדמה   חום   אפור   אפור כהה   זית   שחור

### מרקם בינוני:



טבעי   לבן   לבבן   חול   חמר   אגוז לוז   אדמה   חום   אפור בהיר   אפור   אפור כהה   זית   שחור



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תעודות, בדיקות ואישורים



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Bellaterra : 17th November 2021  
Dossier number : **18/17705-2210M2**  
Petitioner Reference : **FERRO COVERLINK, S.L.**  
Avda. Real de Extremadura, 25  
12200 Onda (Castellón)

## TEST REPORT

### **RECEIVED MATERIAL**

On July 16th 2018 several specimens applied with coating product for the concrete has been received in Applus Laboratories, with the following references as specified by the applicant:

### **SPRAY CORK BY COVERLINK**

### **REQUESTED TESTS:**

PRODUCTS AND SYSTEMS FOR THE PROTECTION AND REPAIR OF CONCRETE STRUCTURES; Surface protection systems for concrete, EN 1504-2:2005. Table 1 and 5: Performance characteristics and requirements for products and systems for surface protection.

- 1- Measurement of bond strength by pull-off, UNE-EN 1542:1999
- 2- Determination of water-vapour transmission properties, UNE-EN ISO 7783:2012
- 3- Determination of liquid-water transmission rate (permeability), UNE-EN 1062-3:2008

**TEST DATE:** From 16/07/2018 to 03/08/2018

**RESULTS :** See attached pages.

Responsible for Construction Materials  
LGAI Technological Center S.A.

Technician Responsible  
LGAI Technological Center S.A.

The results included in this document refer exclusively to the indicated materials and has been tested according to the specifications given. This report replaces and cancels the report or certificate 18 / 17705-2210M1, dated June 30, 2021. The modification consists in changing the reference name of the tested product.

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Page 1- This document is **4** pages long, whereof **0** are appendixes



Dossier number	18/17705-2210M2	Page 2
<b>FERRO COVERLINK, S.L.</b>		<b>SPRAY CORK BY COVERLINK</b>

**RESULTS:**

**1- Measurement of bond strength by pull-off, UNE-EN 1542:1999**

The reference samples, are 300 x 300 x 100 mm sheets, manufactured from aggregates with a maximum size between 8 and 12mm and the surface of which has been pre-treated by gritblasted, with a concrete reference MC(0,40) according to test standard UNE-EN 1766:2000.

**NO bubbles, cracks or flaking after the cure is completed have been detected.**

Specimen nº	Tensile strength ( N/mm <sup>2</sup> )
1	0,85 (B)
2	0,95 (B)
3	0,88 (B)
4	1,02 (B)
5	1,13 (B)
<b>Mean</b>	<b>1,0 MPa</b>

NOTE: failure type in brackets.

A: Concrete cohesive failure

A/B: Adhesive failure between concrete and 1st layer applied

B: Cohesion failure between layers

<b>Requirements according to EN 1504-2:2004 Table 5</b>			
Flexible Systems		Rigid Systems	
Without trafficking	With trafficking	Without traffcking	With trafficking
≥ 0,8 MPa	≥ 1,5 MPa	≥ 1,0 MPa	≥ 2,0 MPa

Dossier number	18/17705-2210M2	Page	3
<b>FERRO COVERLINK, S.L.</b>		<b>SPRAY CORK BY COVERLINK</b>	

## 2- Determination of water-vapour transmission properties, UNE-EN ISO 7783:2012

- Three cylindrical test specimens have been prepared, approximate surface=0,0095 m<sup>2</sup> (100 mm diameter), to test with support or substrate.
- After curing for 28 days in laboratory conditions, the test specimens undergo 3 cycles of immersion in water and drying.
- Site ambient conditions: 23°C and 50% R.H.
- Saturated dissolving in capsules: dihydrogen ammonium phosphate (93%RH).
- Pressure difference ( $\Delta p$ )= 1210 Pa.

To create an atmosphere of 93% R.H. inside the capsule, a saturated dissolving with dihydrogen ammonium phosphate is used, whereby a 50% humidity shall be attained outside the capsule and 93% inside, thereby reducing the mass of the sample-capsule set.

### Final results:

Specimen n°	Water-vapour flow rate G (g/h)	Water-vapour transmission rate V (g/m <sup>2</sup> * day)	Diffusion-Equivalent air layer thickness Sd (m)	Water vapour resistance factor $\mu$
1	0,0121	30,6	0,7	349
2	0,0085	21,4	1,0	522
3	0,0110	27,8	0,7	378
<b>Mean</b>	<b>0,0105</b>	<b>26,6</b>	<b>0,8</b>	<b>416</b>

Requirements according to UNE-EN 1504-2:2004 Table 5	
Class I ( permeable to water vapour)	Sd < 5 m
Class II	5m ≤ Sd ≤ 50 m
Class III (dense against water vapour)	Sd > 50 m



Dossier number	18/17705-2210M2	Page 4
<b>FERRO COVERLINK, S.L.</b>		<b>SPRAY CORK BY COVERLINK</b>

### 3- Determination of liquid-water transmission rate (permeability), UNE-EN 1062-3:2008

Ceramic specimens have been used as the substrate: approximate size 150x150mm, 30 mm thick, density 1650 kg/m<sup>3</sup> and liquid water transmission index 7,5 Kg/(m<sup>2</sup>·h<sup>0,5</sup>).

After curing the product for 28 days in laboratory conditions, the test specimens undergo 3 water immersion and drying cycles, and a final drying.

Specimen nº	W (Kg/m <sup>2</sup> h <sup>0,5</sup> )
1	0,06
2	0,08
3	0,09
<b>Mean</b>	<b>0,08</b>

Requeriments according to UNE-EN 1504-2:2004 Table 5	
Capillary absorption and permeability to water	W < 0,1 Kg/(m <sup>2</sup> * h <sup>0,5</sup> )

#### Service Quality Assurance

Applus+, guarantees that this work has been made in accordance with our Quality and Sustainability System, fulfilling the contractual conditions and legal norms.

Within our improvement program we would be grateful if you would send us any commentary that you consider opportune, to the person in charge who signs this document, or to the Quality Manager of Applus+, in the following e-mail address: [satisfaccion.ciente@applus.com](mailto:satisfaccion.ciente@applus.com)

**ASTM E84 Standard**

**TEST REPORT**

**Rendered to:**

**Ferro Coverlink S.L.**

**PRODUCT:**

**Aerosol Cork Spray**

<b>Report No.:</b>	FCS071621-49
<b>Test Date(s):</b>	08-06-2021
<b>Report Date:</b>	08-09-2021
	12 pages



**Test Report**

FCS071621-49  
08-09-2021

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**TEST REPORT**

Rendered to:

Ferro Coverlink S.L.  
 Avda. Real de Extremadura 25  
 Onda, Castellon 12100

Report No.:	FCS071621-49
Test Date:	08-06-2021
Report Date:	08-09-2021

**1.0 General Information**

**1.1 Product**

Aerosol Cork Spray

**1.2 Project Summary**

ICC NTA, LLC was contracted by Ferro Coverlink S.L. to evaluate Aerosol Cork Spray in accordance with ASTM E84-21a. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at ICC NTA's facility in Bryan, TX.

**1.3 Product Description**

<b>Product Name:</b>	Aerosol Cork Spray
<b>Product type:</b>	Cork Spray
<b>Product Use:</b>	Interior
<b>Model Name/Sample Number:</b>	1
<b>Sample Description:</b>	Aerosol Cork Spray (6) 24 x 48-in.
<b>Color:</b>	Blue
<b>Sample Length:</b>	24-ft
<b>Sample Width:</b>	24-in.
<b>Thickness:</b>	1/2-in.
<b>Total Weight:</b>	86.6 lbs
<b>Sample Received Date:</b>	07-30-2021
<b>Days in Conditioning:</b>	7



#### **1.4 Qualifications**

ICC NTA in Bryan, TX has demonstrated compliance with ISO/IEC 17025 and is consequently accredited as a Testing Laboratory. ICC NTA is accredited to perform all testing reported herein.

#### **1.5 Product Sampling**

No evidence was provided that a third-party agency sampled materials for the testing reported herein. All test specimens were supplied by Ferro Coverlink S.L.

#### **1.6 Witnessing**

No representatives of Ferro Coverlink S.L. were present for testing reported herein.

#### **1.7 Conditioning of Test Specimens**

Unless otherwise indicated, all testing reported herein was conducted in a laboratory set to maintain temperature in the range of 65-80°F and humidity in the range of 45-60% RH. All test specimen materials were stored in the laboratory conditioning room of  $73.4 \pm 5^\circ\text{F}$  and at a relative humidity of  $50 \pm 5\%$  environment for no less than 24 hours prior to testing. The test specimens were conditioned for **7** days and obtained steady state.

**2.0 Referenced Standards**

ASTM E84-21a Standard Test Method for Surface Burning Characteristics of Building Materials.

**3.0 Summary of Results**

**Flame Spread Index – 5**  
**Smoke Developed Index –25**

**4.0 Test Results**

**TEST DATA**

<b>Time to Ignition (mm:ss):</b>	<b>01:52</b>
<b>Maximum Flame Spread (ft):</b>	<b>1.000</b>
<b>Time to Max Flame Spread (mm:ss):</b>	<b>02:14</b>
<b>Maximum Temperature (°F):</b>	<b>543</b>
<b>Time to Max Temperature (mm:ss):</b>	<b>09:28</b>
<b>Total Fuel Burned (cubic feet):</b>	<b>40.360</b>
<b>Flame Spread*Time Area (ft*min):</b>	<b>7.770</b>
<b>Smoke Area (%A*min):</b>	<b>25.080</b>
<b>Unrounded FSI:</b>	<b>4.002</b>
<b>Unrounded SDI:</b>	<b>23.422</b>

**TEST OBSERVATIONS**

<b>01:09</b>	<b>Observed Discoloration</b>
<b>01:52</b>	<b>Sample Ignition</b>
<b>03:03</b>	<b>Observed Falling Debris</b>
<b>05:06</b>	<b>Observed Falling Debris</b>
<b>08:04</b>	<b>Observed No Changes</b>

**POST-TEST OBSERVATIONS**

<b>0 – 8 ft</b>	<b>Section was consumed with charred layers on floor.</b>
<b>8 – 16 ft</b>	<b>Section was charred on leading edge and stayed attached to substrate.</b>
<b>16 – 24 ft</b>	<b>Section on surface was discolored and stayed attached to substrate.</b>



## Analysis on Classification Criteria

Based on Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL 723. Three classes of interior finish are specified by the International Building Code (IBC) that describes a set of classification criteria required for interior wall and ceiling finish materials. The classification criteria for all three model codes is the same: ASTM E84 and UL 723 do not include classification criteria for the results obtained from testing.

Class	Flame Spread Index	Smoke Developed Index
A	0-25	0-450
B	26-75	0-450
C	76-200	0-450

### 4.1 General

This fire-test–response standard for the comparative surface burning behavior of building materials is applicable to exposed surfaces such as walls and ceilings. This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

### 4.2 Test Specimens

The samples submitted by the manufacturer were (6) 24 x 48-in. sheetrock panels with aerosol cork spray applied onto sheetrock. They were received without damage. They were individually weighed and logged into the test samples database and placed in the NTA temperature and humidity controlled conditioning room.

### 4.3 Test Setup and Procedure


The product(s) were setup and evaluated in accordance with ASTM E84-21a.

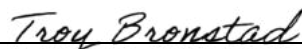
<b>Substrate Used:</b>	Sheetrock
<b>Mounting Method:</b>	Standard
<b>Support Used:</b>	None
<b>Side Exposed:</b>	Cork Spray
<b>Adhesive Used &amp; Coverage Rate (if Applicable):</b>	N/A
<b>Cement Board Used to Cover Sample (Y/N):</b>	Yes
<b>Sample Continuous or Sectioned:</b>	Sectioned
<b>No. &amp; Size of Sections:</b>	(6) 24 x 48-in.
<b>Lab Ambient Temp (°F):</b>	74
<b>Lab Ambient RH (%):</b>	56
<b>Date Tested:</b>	08-06-2021

## 5.0 Closing Statement

This report contains only findings and results arrived at after employing the specific test procedures listed herein. It does not constitute a recommendation for, endorsement of, or certification of the product or material tested. Unless differently required, ICC NTA, LLC reports apply the "Simple Acceptance" rule, also called "Shared Risk approach", of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity. ICC NTA makes no warranty, expressed or implied, except that the test has been performed, and a report prepared, based upon the specimen specified by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC NTA assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC NTA has no control. ICC NTA has issued this report for the exclusive use of the client to whom it is addressed. Any use or duplication of this report shall not be made without their consent. This report shall only be reproduced in its entirety.

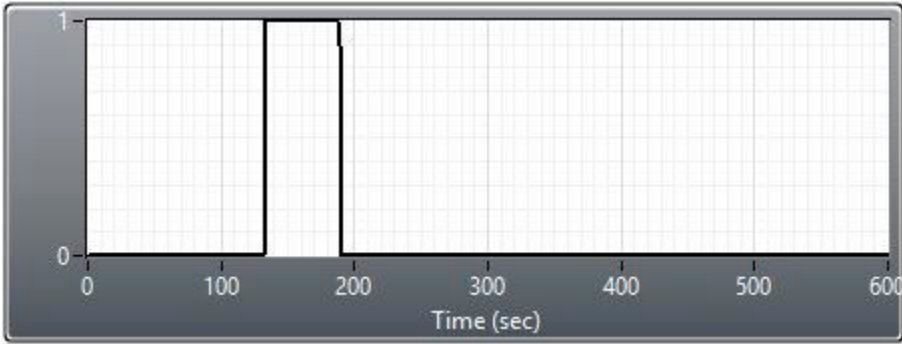
For ICC NTA, LLC:

  
\_\_\_\_\_  
Tested by: Gabriel Parra                      08-09-2021  
Test Engineer/Technician

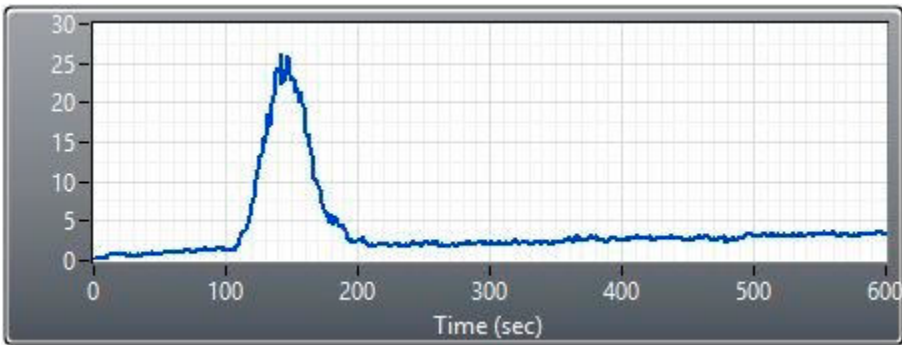
  
\_\_\_\_\_  
Reviewed by: Troy Bronstad                      08-09-2021  
Senior Technical Team Leader

Appendix A - Data

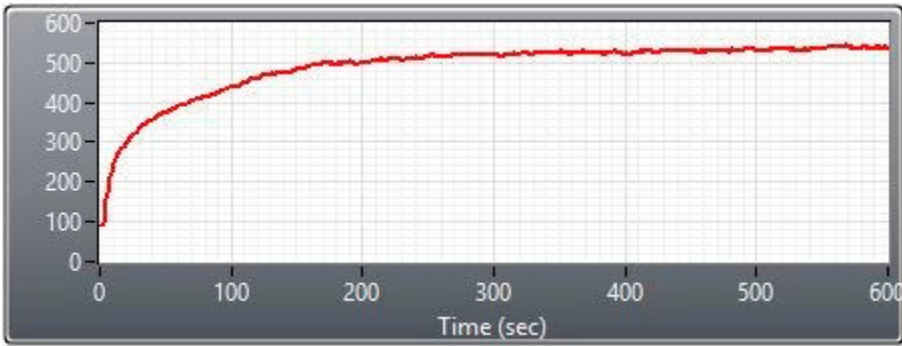
**FLAME SPREAD**



**SMOKE (%A)**



**TEMPERATURE**





**Appendix B – Photographs**



**Photo No. 1**  
**Sample ID**



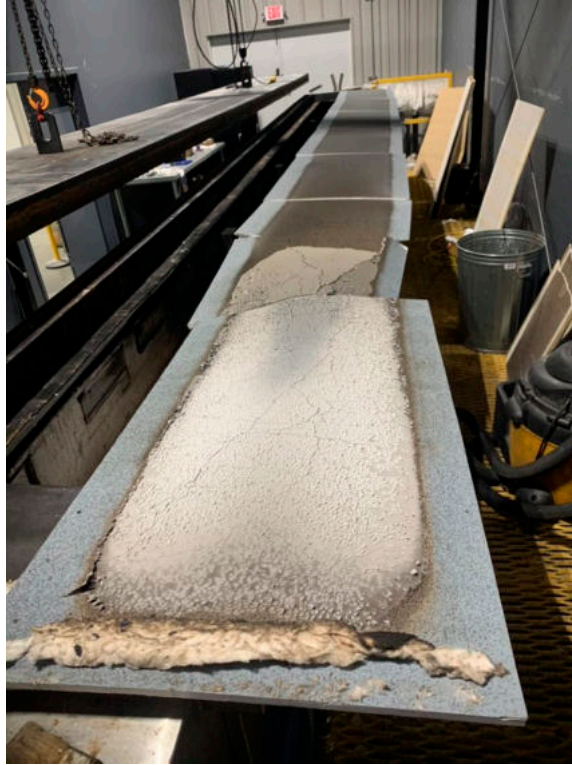
**Photo No. 2**  
**Pre-Test Exposed Side**



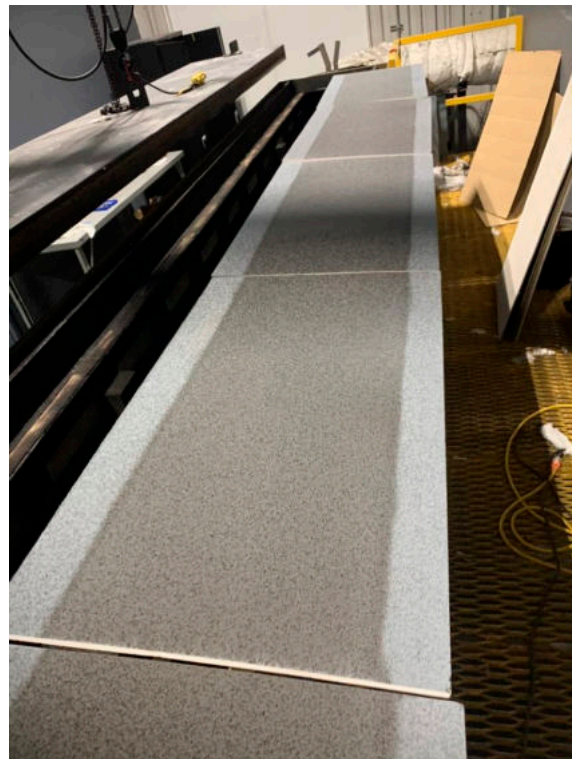
**Photo No. 3**  
**Pre-Test Unexposed Side in Tunnel**



**Photo No. 4**  
**Post-Test Unexposed Side in Tunnel**



**Photo No. 5**  
**Post-Test Exposed Side**



**Photo No. 6**  
**Post-Test Exposed Side Section 2**

### Appendix C - Revision Log

<b>Rev. #</b>	<b>Date</b>	<b>Page(s)</b>	<b>Revision(s)</b>
0	08-09-2021	N/A	Original report issue



Reference: 2103209-01

Order sheet: 22101186

## TEST REPORT n. 221.I.2103.407.EN.01

### AT THE REQUEST OF:

**COMPANY:** FERRO-COVERLLINK, S.A.  
**PERSON IN CHARGE:** ANA BELÉN ALBIOL  
**ADDRESS:** AV. REAL DE EXTREMADURA, 25  
**TOWN:** 12200 ONDA (CASTELLÓN) SPAIN  
**PHONE NUMBER:** +34 964604000  
  
**VAT NUMBER:** B-12405577

### CONCERNING:

**SAMPLE:** PROJECTED CORK FOR THERMAL  
INSULATION  
  
**TEST:** THERMAL CONDUCTIVITY

**SAMPLES RECEPTION DATE:** 22/03/2021  
**TESTING STARTING DATE:** 22/03/2021  
**TESTING FINISHING DATE:** 29/03/2021

Document digitally signed by legal electronic signature.

**THIS REPORT CONSISTS OF 3 CONSECUTIVELY NUMBERED PAGES.**

The test samples, the subject of this report, will remain at AIDIMME for a period of three months starting from the report issue date. That period having expired, it will be destroyed. Hence, any claim must be made within this time limit.

Test report n. 221.I.2103.407.EN.01

## 1. DESCRIPTION AND IDENTIFICATION OF THE SAMPLE. INSPECTION BEFORE TESTING

Sample of projected cork for thermal insulation, identified by the customer as "ISOLATE TECH", based on styrene-acrylic resins in aqueous emulsion, natural cork and other additives, according to information provided by the client, whose approximate dimensions are 300 mm × 300 mm × 50 mm.

The sample is referenced in AIDIMME as 2103209-01.

## 2. ORIGIN OF THE SAMPLES

Sample supplied by the client.

## 3. TESTS REQUESTED

Determination of thermal conductivity according to ASTM C518.

## 4. STANDARD TEST METHOD

Test method is carried out according to the procedure described in the standard ASTM C518 - 17 "*Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*".

## 5. DESCRIPTION OF THE TEST METHOD

### DETERMINATION OF THERMAL CONDUCTIVITY

The sample is conditioned to constant mass at a temperature of  $(23 \pm 2)$  °C and a relative humidity of  $(50 \pm 5)\%$  prior the thermal conductivity measurement test is carried out with a NETZSCH HFM 436/3 equipment.

The specimen is placed between a hot and a cold plate, and the heat flow created by the well-defined temperature difference is measured with a heat flux sensor.

The instrument is calibrated with a National Institute of Standards & Technology (NIST) certified reference standard of known thermal conductivity (standard 1450c), establishing the precise correlation between the signal output of the transducers and the actual heat flow. Thermal conductivity is calculated once the equilibrium criteria are met.

## 6. TEST RESULTS

### DETERMINATION OF THERMAL CONDUCTIVITY

METHOD	AVERAGE TEMPERATURE (°C)	THERMAL CONDUCTIVITY (W/m·K)	THERMAL RESISTANCE (W/m <sup>2</sup> ·K)
ASTM C518-17	10	0,043	1,198
	20	0,043	1,195
	30	0,044	1,169
	40	0,046	1,124

Thickness of the specimen: 51,5 mm

Density of the conditioned specimen: 218,7 kg/m<sup>3</sup>

Measurement conditions for thermal conductivity:

- Measuring temperatures: 10 °C, 20 °C, 30 °C and 40 °C
- Average temperature difference between hot and cold plate: 20 °C
- Environmental conditions: 23 °C and 60% RH.

The results of the tests apply only to the tested samples.

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Date: March, 29<sup>th</sup> 2021



**AIDIMME**

Rosa Mª Pérez Campos, PhD  
Head of Materials Laboratory  
AIDIMME



**AIDIMME**

José Luis Millá  
Technician of Materials Laboratory  
AIDIMME

Reference: 2111043-01 and 02  
Order sheet: 22105266

**TEST REPORT n. 221.I.2112.1292.EN.01**

**AT THE REQUEST OF:**

**COMPANY:** FERRO-COVERLLINK, S.A.  
**PERSON IN CHARGE:** ANA BELÉN ALBIOL  
**ADDRESS:** AV. REAL DE EXTREMADURA, 25  
**TOWN:** 12200 ONDA (CASTELLÓN) SPAIN  
**PHONE NUMBER:** +34 964604000  
  
**VAT NUMBER:** B-12405577

**CONCERNING:**

**SAMPLE:** PROJECTED CORK FOR THERMAL  
INSULATION  
  
**TEST:** FREEZE/THAW RESISTANCE

**SAMPLES RECEPTION DATE:** 04/11/2021  
**TESTING STARTING DATE:** 04/11/2021  
**TESTING FINISHING DATE:** 20/12/2021

**Document digitally signed by legal electronic signature.**

**THIS REPORT CONSISTS OF 5 CONSECUTIVELY NUMBERED PAGES.**

**The test samples, the subject of this report, will remain at AIDIMME for a period of three months starting from the report issue date. That period having expired, it will be destroyed. Hence, any claim must be made within this time limit.**



Test report n. 221.I.2112.1292.EN.01

## 1. DESCRIPTION AND IDENTIFICATION OF THE SAMPLE. INSPECTION BEFORE TESTING

Samples of two different projected cork coatings for thermal insulation, identified by the customer as "**SPRAY CORK FINE BY COVERLINK**" and "**SPRAY CORK TECH BY COVERLINK**", based on styrene-acrylic resins in aqueous emulsion, natural cork and other additives, applied on PVC substrate whose approximate dimensions are 150 mm × 150 mm × 5 mm, according to information provided by the client. The samples are referenced in AIDIMME as 2111043-01 and 2111043-02 respectively.

## 2. ORIGIN OF THE SAMPLES

Samples supplied by the client.

## 3. TESTS REQUESTED

Determination of freeze/thaw resistance according to ASTM E2485.

## 4. STANDARD TEST METHOD

Test method is carried out according to the procedure described in the standard ASTM E2485/E2485M-13(2018) "*Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings*" method B (10 cycles).

## 5. DESCRIPTION OF THE TEST METHOD

### DETERMINATION OF FREEZE/THAW RESISTANCE

Five test specimens are subjected to cycles of freezing and thawing consisting of a first stage of air dry at a temperature of 49 °C for a minimum of 8 h, an immersion (finished side down) in a thawing tank, with the water temperature at  $24 \pm 5,5$  °C, and finally a freezing step at -20°C for 16 h.

After completion, surface changes, viewed at 5x magnification, are examined for signs of deleterious effects, such as cracking, crazing, checking, blistering, peeling, delamination or erosion.

## 6. TEST RESULTS

### SAMPLE REFERENCED IN AIDIMME AS 2111043-01 (SPRAY CORK FINE BY COVERLINK)

TEST	METHOD	RESULTS
Determination of freeze/thaw resistance	ASTM E2485/ E2485M-13(2018)	No deleterious effects at 10 cycles when viewed under 5x magnification

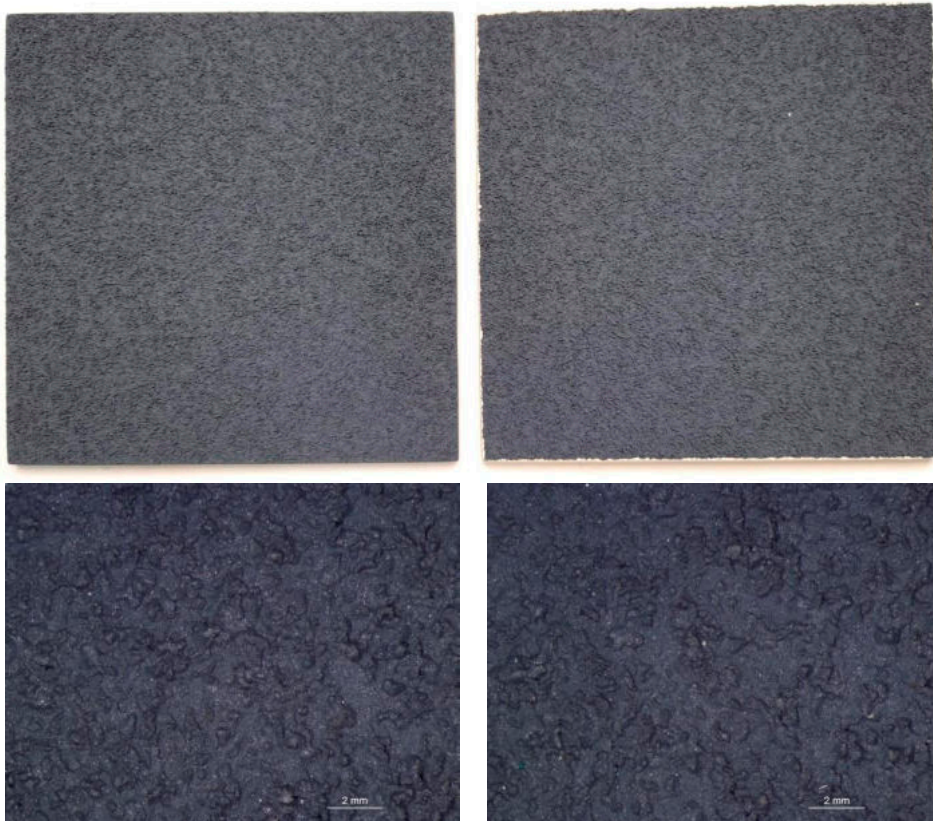


Figure 1. Photographs of a control sample (left) versus the tested sample (right)

**SAMPLE REFERENCED IN AIDIMME AS 2111043-02 (SPRAY CORK TECH BY COVERLINK)**

TEST	METHOD	RESULTS
Determination of freeze/thaw resistance	ASTM E2485/ E2485M-13(2018)	No deleterious effects at 10 cycles when viewed under 5x magnification

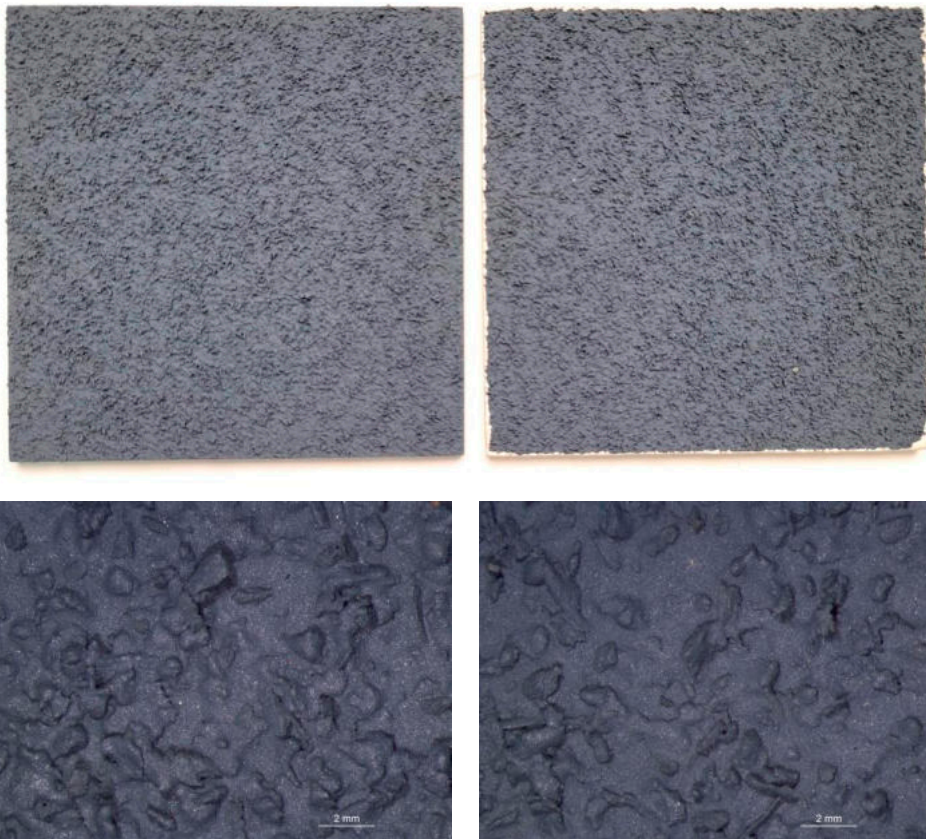


Figure 2. Photographs of a control sample (left) versus the tested sample (right)

The results of the tests apply only to the tested samples.

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Date: December, 20<sup>th</sup> 2021



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AIDIMME



José Luis Millá  
Technician of Materials Laboratory  
AIDIMME



Reference: 2108071-01 and 02  
Order sheet: 22103885

**TEST REPORT n. 221.I.2109.954.EN.03**

**AT THE REQUEST OF:**

**COMPANY:** FERRO-COVERLINK, S.A.  
**PERSON IN CHARGE:** ANA BELÉN ALBIOL  
**ADDRESS:** AV. REAL DE EXTREMADURA, 25  
**TOWN:** 12200 ONDA (CASTELLÓN) SPAIN  
**PHONE NUMBER:** +34 964604000  
  
**VAT NUMBER:** B-12405577

**CONCERNING:**

**SAMPLE:** PROJECTED CORK  
  
**TEST:** FLATWISE TENSILE STRENGTH

**SAMPLES RECEPTION DATE:** 31/08/2021  
**TESTING STARTING DATE:** 06/09/2021  
**TESTING FINISHING DATE:** 14/09/2021

*This report cancels and replaces report nº 221.I.2109.954.EN.02*

**Document digitally signed by legal electronic signature.**

**THIS REPORT CONSISTS OF 6 CONSECUTIVELY NUMBERED PAGES.**

**The test samples, the subject of this report, will remain at AIDIMME for a period of three months starting from the report issue date. That period having expired, it will be destroyed. Hence, any claim must be made within this time limit.**

Test report n. 221.I.2109.954.EN.03

## 1. DESCRIPTION AND IDENTIFICATION OF THE SAMPLE. INSPECTION BEFORE TESTING

Projected cork for thermal insulation based on styrene-acrylic resins in aqueous emulsion, natural cork and other additives, identified by the customer as "**ISOLATE FINE FR**", applied on two different substrates.

The sample applied on "*Glasroc X*", a gypsum board with mat reinforcement, was referenced in AIDIMME as 2108071-01. The sample applied on a galvanized sheet metal, was referenced in AIDIMME as 2108071-02.

## 2. ORIGIN OF THE SAMPLES

Samples supplied by the client.

## 3. TESTS REQUESTED

Determination of the flatwise tensile strength according to ASTM C297 / C297M - 16.

## 4. STANDARD TEST METHOD

Test method is carried out according to the procedure described in the standard ASTM C297 / C297M - 16 "*Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions*".

## 5. DESCRIPTION OF THE TEST METHOD

### DETERMINATION OF FLATWISE TENSILE STRENGTH

The test consists on measuring the minimum uniaxial tensile force normal to the plane of the sandwich ( $F_z^{tu}$ ) necessary to detach or rupture the sample. The test is performed by securing 50 mm square loading blocks to the sample with a suitable adhesive. After the adhesive is cured, a universal testing machine is attached to the loading fixture and aligned to apply tension perpendicular to the test surface.

The speed of testing is set to produce failure within 3 to 6 minutes (0,50 mm/min).

The flatwise tensile strength is determined and reported to three significant figures and the type of failure is registered.



Fig. 1. Flatwise tensión test setup

According to the standard ASTM E2568 - 17a “*Standard Specification for PB Exterior Insulation and Finish Systems*”, the requirement for tensile bond adhesion shall be in conformance with the following table:

<b>Characteristic</b>	<b>Standard</b>	<b>Minimum Properties</b>
Tensile bond adhesion	Test Methods E2134/E2134M or C297/C297M	No failure in the adhesive coat, base coat, or finish coat. The insulation board shall fail cohesively except that 25 % adhesive failure is acceptable. For tested values of 15 psi (0,103 MPa) or greater, adhesive failure up to 100 % is acceptable.

## 6. TEST RESULTS

### DETERMINATION OF FLATWISE TENSILE STRENGTH

#### SAMPLE REFERENCED IN AIDIMME AS 2108071-01

TEST SPECIMEN	$F_z^{tu}$ (MPa)	AREA (mm <sup>2</sup> )	THICKNESS (mm)	WEIGHT (mm <sup>2</sup> )	TYPE OF FAILURE
1	0,503	2509	13,93	30,4	Core failure (gypsum board)
2	0,469	2514	13,92	29,8	Core failure (gypsum board)
3	0,390	2510	13,92	30,2	Core failure (gypsum board)
4	0,499	2513	13,90	30,2	Core failure (gypsum board)
5	0,409	2512	13,97	30,4	Core failure (gypsum board)
6	0,481	2509	13,90	30,2	Core failure (gypsum board)
<b>Mean</b>	0,459	2510	13,92	30,2	
<b>Standard deviation</b>	0,048	2	0,03	0,2	
<b>Coefficient of variation (%)</b>	10,405	0	0,19	0,7	

The sample meet the performance required in the standard ASTM E2568- 17a



*Fig. 2 Example of type of failure after test on reference 2108071-01*



**SAMPLE REFERENCED IN AIDIMME AS 2108071-02**

TEST SPECIMEN	$F_z^{tu}$ (MPa)	AREA (mm <sup>2</sup> )	THICKNESS (mm)	WEIGHT (mm <sup>2</sup> )	TYPE OF FAILURE
1	1,466	2454	2,18	48,91	Facing*
2	1,589	2508	2,08	49,97	Facing*
3	1,753	2485	2,08	49,5	Facing*
4	1,540	2471	2,11	49,26	Facing*
5	1,729	2486	2,09	49,56	Facing*
6	1,590	2496	2,10	49,78	Facing*
<b>Mean</b>	1,611	2483	2,10	49,50	
<b>Standard deviation</b>	0,111	19	0,04	0,38	
<b>Coefficient of variation (%)</b>	6,859	1	1,87	0,76	

\* Cohesive failure of the projected cork

The sample meet the performance required in the standard ASTM E2568- 17a



*Fig. 3 Example of type of failure after test on reference 2108071-02*

The results of the tests apply only to the tested samples.

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Date: September, 17<sup>th</sup> 2021



Rosa Mª Pérez Campos, PhD  
Head of Materials Laboratory  
AIDIMME



José Luis Millá  
Technician of Materials Laboratory  
AIDIMME

**TEST REPORT  
for  
ASTM C297**

**Rendered to:**

**Ferro Coverlink S.L**

**PRODUCT:**

***Spray Cork by Coverlink***

**Report No.:** FCS071621-51(R0)  
**Test Date(s):** 09/02/2021 – 09/23/2021  
**Report Date:** 10/29/2021  
14 pages

**Test Report**

FCS071621-51(R0)

10/29/2021

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## TEST REPORT

Rendered to:

Ferro Coverlink S.L  
Avda. Real de Extremadura 25  
Onda, Castellon 12200, ESP

Report No.: FCS071621-51(R0)  
Test Date: 09/02/2021 - 09/23/2021  
Report Date: 10/29/2021

### **1.0 General Information**

#### **1.1 Product**

*Spray Cork by Coverlink*

#### **1.2 Project Summary**

ICC NTA, LLC was contracted by Ferro Coverlink S.L to evaluate *Spray Cork by Coverlink* in accordance with ASTM C297. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at ICC NTA's facility in Nappanee, IN.

#### **1.3 Product Description**

*Spray Cork by Coverlink* was applied to a Densglass substrate. Nominal specimen dimensions were two inches in length and width.

#### **1.4 Qualifications**

ICC NTA in Nappanee, IN has demonstrated compliance with ISO/IEC 17025 and is consequently accredited as a Testing Laboratory. ICC NTA is accredited to perform all testing reported herein.

#### **1.5 Product Sampling**

No evidence was provided that a third-party agency sampled materials for the testing reported herein. All test specimens were supplied by Ferro Coverlink S.L. Materials arrived in good condition on September 1<sup>st</sup>, 2021.

#### **1.6 Witnessing**

No representatives of Ferro Coverlink S.L were present for testing reported herein.



## 1.7 Conditions of Testing

Unless otherwise indicated, all testing reported herein was conducted in a laboratory set to maintain temperature in the range of  $73.4 \pm 3.6^{\circ}\text{F}$  and humidity in the range of  $50 \pm 5\% \text{RH}$ .

## 2.0 Referenced Standards

**ASTM C297-16:** Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions

**ASTM E2568-09:** Standard Specification for PB Exterior Insulation and Finish Systems

### 3.0 Summary of Results

Standard	Variable	Results
ASTM C297: Tensile Bond	Avg. Flatwise Tensile Strength, T (psi)	72
ASTM E2568	Table 1: Tensile Bond Adhesion	Specimens Met Criteria

#### 4.0 ASTM C297: Tensile Strength

##### 4.1 General

The purpose of this test was to determine the tensile properties of the specimens.

##### 4.2 Test Specimens

Five specimens were tested. Details of the specimens used for testing can be found in Section 1.3.

##### 4.3 Test Setup and Procedure

Prior to testing, each specimen was conditioned to moisture equilibrium and then bonded at ambient lab conditions to a set of fixture blocks for testing purposes. Testing was performed in accordance with ASTM C297. Accordingly, each specimen was loaded in the universal testing machine, as shown in Appendix A, at a rate to obtain ultimate load within 3 to 6 minutes of elapsed testing time. At the conclusion of each test the ultimate load and failure mode were observed and reported.

There were no deviations to the standard.

The ASTM E2568 specification denotes in Table 1 for Tensile bond adhesion that Test Method C297 must be followed. In addition, specimens shall have no failure in the adhesive, base, or finish coats. Test values that achieve a Flatwise Tensile Strength, *T*, of greater than 15psi can have 100 percent adhesive failure.

##### 4.4 Test Results

Results for testing are summarized in the table below. The formula used in the calculation of results is given in Equation 1. Additional test data and pictures are provided in Appendix A and B.

$$T = \frac{U}{A} \tag{Equation 1}$$

Whereas:

- T* = Tensile Strength (lbf / in.<sup>2</sup>)
- U* = Ultimate Load (lbf)
- A* = Cross-Sectional Area (in. <sup>2</sup>)

Specimen Number	Flatwise Tensile Strength, <i>T</i> (psi)	Failure Mode
135491	83	Core Failure of Specimen
135492	76	Core Failure of Specimen
135493	96	Core Failure of Specimen
135494	79	Core Failure of Specimen
135495	25	Core Failure of Specimen. Weak spot on corner caused instantaneous failure.

The testing as conducted met the Tensile Bond Adhesion minimum properties as outlined by Table 1 in ASTM E2568-09.

## 5.0 Closing Statement

This report contains only findings and results arrived at after employing the specific test procedures listed herein. It does not constitute a recommendation for, endorsement of, or certification of the product or material tested. Unless differently required, ICC NTA, LLC reports apply the "Simple Acceptance" rule, also called "Shared Risk approach", of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity. ICC NTA makes no warranty, expressed or implied, except that the test has been performed, and a report prepared, based upon the specimen specified by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC NTA assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC NTA has no control. ICC NTA has issued this report for the exclusive use of the client to whom it is addressed. Any use or duplication of this report shall not be made without their consent. This report shall only be reproduced in its entirety.

For ICC NTA, LLC:

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Brian Tedeschi  
Test Engineer

10/29/2021

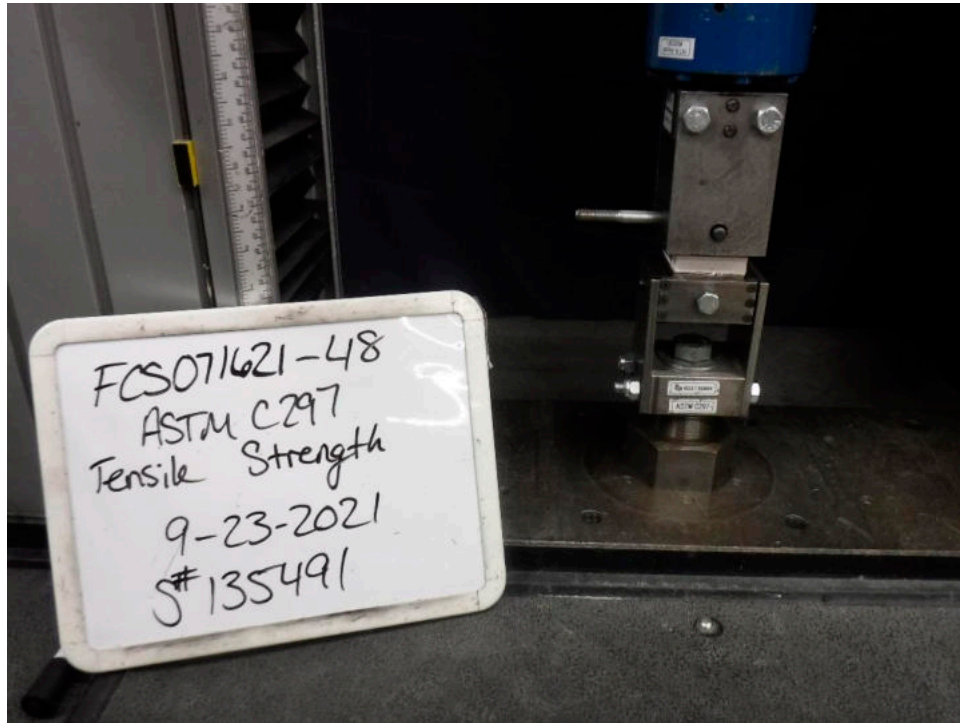
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Lucas Ward  
Test Engineer

10/29/2021



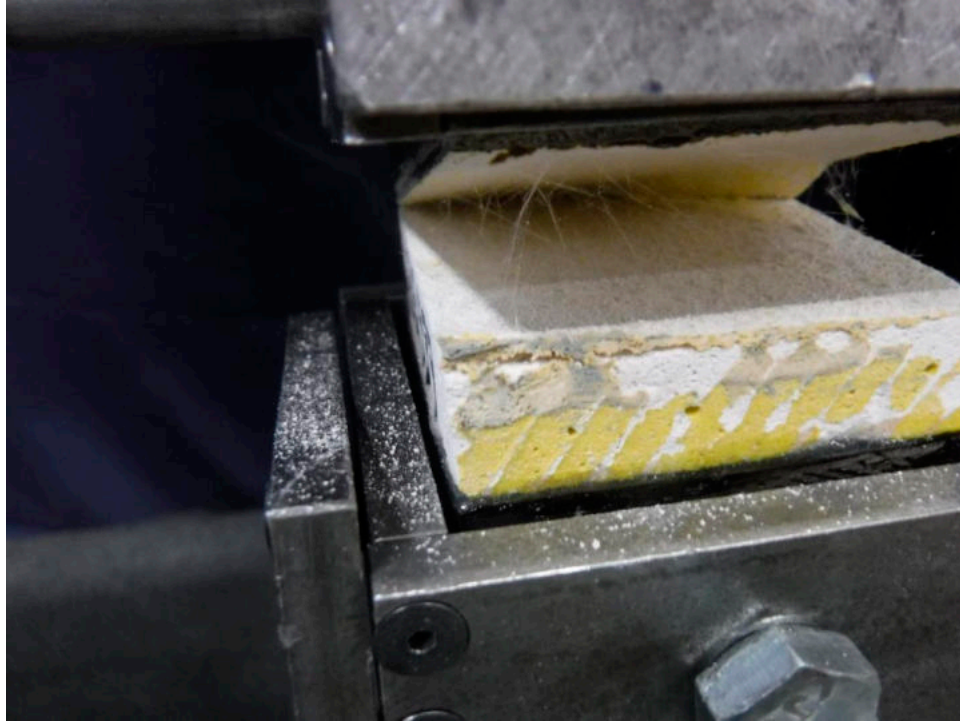
**Appendix A - Photographs**



**Photo No. 1**  
**ASTM C297 Test Setup, Specimen Number 135491**



**Photo No. 2**  
**Core Failure Example, Specimen Number 135491**



**Photo No. 3**  
**Failure Mode Example, Specimen Number 135495**

## Appendix B – Data

FCS071621-48 ASTM C0297-16 TEST (FINAL)  
Summary Out Data

ICC NTA

### SUMMARY DATA ASTM C0297-16

#### Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions

Client: Ferro Coverlink S.L.  
Job Number: FCS071621-48

Test Location: *ICC NTA*  
*Nappanee, Indiana*

<p><b>General:</b> Date Received: 9/2/2021 Construction Date: 9/15/2021 Constructed By: Kyle Houdek Performed By: Stephanie Truex Witnessed By: Brian Tedeschi</p>	<p><b>Apparatus:</b> Asset No. Balance: 02454 Measurement Device: 643, 340 Balance: 02454 Calipers: 00643 Load Cell: 02091 Loading Frame: 00140 Balance: 01097</p>
--	--

**Results Summary:**

Average Cross-Sectional Area (in. <sup>2</sup> ):	3.85
Average Ultimate Force $P_{max}$ (lbf):	276
<b>Average Ultimate Flatwise Tensile Strength <math>F_z^{III}</math> (psi):</b>	<b>72</b>

**Product Description:**

Panel Trade Name: Ferro Coverlink Aerosol Cork Spray  
Panel Manufacturer: Ferro Coverlink  
Procedure Modifications: None

This summary contains only data arrived at after employing the specific test procedures listed herein. This summary data might not include all reporting requirements of the test standard. The data herein does not constitute a recommendation for, endorsement of, or certification of the product or material tested. ICC NTA makes no warranty, expressed or implied, except that the test has been performed, and data prepared, based upon the specimen furnished by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC NTA assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC NTA has no control. ICC NTA has issued this data summary for the exclusive use of the client to whom it is addressed. Any use or duplication of this summary shall not be made without their consent. This summary shall only be reproduced in its entirety.

**SUMMARY DATA**  
**ASTM C0297-16**

**Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions**

**Specimen Conditioning:**

Conditioning Start Date: 9/14/2021  
Start Temperature (°F): 72.5  
Start Humidity (%R.H.): 54.6  
Sensor Asset No.: 00587

Conditioning End Date: 9/17/2021  
End Temperature (°F): 72.1  
Start Humidity (%R.H.): 50.5  
Sensor Asset No.: 00587

**Table A1: Specimen Physical Properties**

Specimen Number	Pre-Conditioning Average Measured Dimensions (in.)			Conditioned Weight (lbm)
	Length	Width	Thickness	
1 135491	1.965	1.965	0.590	33.650
2 135492	1.958	1.971	0.585	32.910
3 135493	1.965	1.960	0.588	33.090
4 135494	1.961	1.965	0.596	33.680
5 135495	1.800	1.970	0.590	32.800
6				
7				
8				
9				
10				
Average	1.930	1.966	0.590	33.226

**Measured Panel Thickness w/Sheathing: 0.59 -in.**

This summary contains only data arrived at after employing the specific test procedures listed herein. This summary data might not include all reporting requirements of the test standard. The data herein does not constitute a recommendation for, endorsement of, or certification of the product or material tested. ICC NTA makes no warranty, expressed or implied, except that the test has been performed, and data prepared, based upon the specimen furnished by the client. Extrapolation of data, from the test data provided herein, to the batch or lot from which the specimens were obtained may not correlate and should be interpreted with extreme caution. ICC NTA assumes no responsibility for variations in quality, composition, appearance, performance, or other features of similar materials produced by the client, other persons, or under conditions over which ICC NTA has no control. ICC NTA has issued this data summary for the exclusive use of the client to whom it is addressed. Any use or duplication of this summary shall not be made without their consent. This summary shall only be reproduced in its entirety.







### Appendix C - Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	10/29/2021	N/A	Original report issue

# SIMPLIFIED TEST CERTIFICATE

**Nº 18/17705-2210M2-S**

Bellaterra, 17th November 2021		Product:			
<b>FERRO COVERLINK, S.L.</b> Avda. Real de Extremadura, 25 12200 Onda (Castellón)		<b>SPRAY CORK BY COVERLINK</b>			
PRODUCTS AND SYSTEMS FOR THE PROTECTION AND REPAIR OF CONCRETE STRUCTURES: Definitions, requirements, quality control and evaluation of conformity. UNE_ EN 1504-2:2005. Part 2: Surface protection systems for concrete.					
Performance characteristics		Results	Requirements		
<b>1- Measurement of bond strength by pull-off, UNE-EN 1542:1999</b>		1,0 MPa	<b>Sistemas Flexibles</b>		<b>Sistemas Rígidos</b>
			Without trafficking	With trafficking	Without trafficking
			≥0,8 MPa	≥1,5 MPa	≥1,0 MPa    ≥2,0 MPa
<b>2- Determination of water-vapour transmission properties, UNE-EN ISO 7783:2012</b>	<b>Water-vapour flow rate</b>	0,0105 g/h	<b>Diffusion-Equivalent air layer thickness Sd</b>		
	<b>Water-vapour transmission rate</b>	26,6 g/m <sup>2</sup> * d	Class I	Class II	Class III
	<b>Diffusion-Equivalent air layer thickness</b>	0,8 m	Sd < 5 m	5 ≤ Sd ≤ 50 m	Sd > 50 m
	<b>Water vapour resistance factor</b>	416			
<b>3- Determination of liquid-water transmission rate (permeability), UNE-EN 1062-3:2008</b>		0,08 Kg/m <sup>2</sup> h <sup>0,5</sup>	W < 0,1 Kg/m <sup>2</sup> *h <sup>0,5</sup>		

למידע נוסף צרו קשר  
עם המומחים שלנו  
**04-8764444**



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