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10665819 CANADA INC.
TEST REPORT

SCOPE OF WORK
TESTING OF THERMAL CORKSHIELD IN ACCORDANCE WITH ASTM B117-18, *STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS*

REPORT NUMBER
103636641COQ-008

TEST DATES
12/21/18 – 02/04/19

ISSUE DATE
02/08/19

PAGES
12

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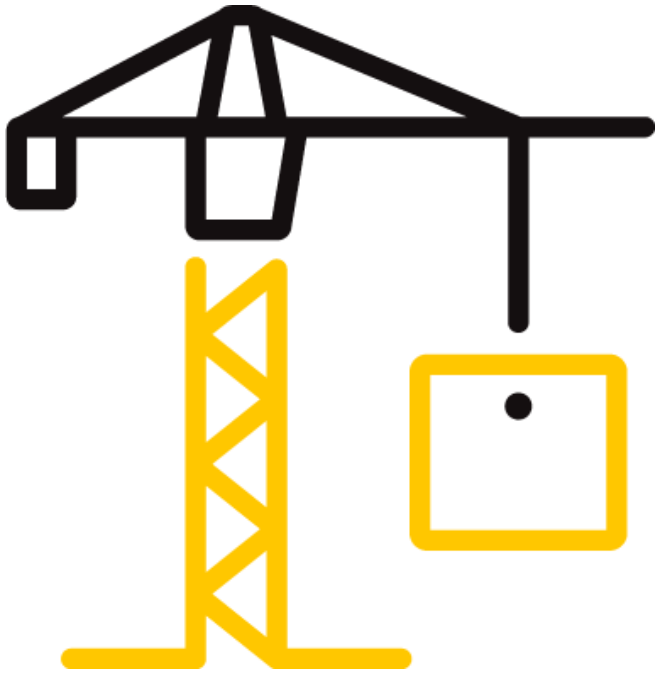
GFT-OP-10c (AUGUST 27, 2018)



1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

Telephone: 604-520-3321
Facsimile: 604-524-9186
www.intertek.com

TEST REPORT FOR 10665819 CANADA INC.
Report No.: 103636641COQ-008
Date: 02/08/19

REPORT ISSUED TO

10665819 CANADA INC.
7301 East Danbro Crescent
Mississauga, ON L5N 6P8
Canada

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by 10665819 Canada Inc. to perform testing in accordance with ASTM B117-18, *Standard Practice for Operating Salt Spray (Fog) Apparatus,* on their exterior coating product. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek test facility in Coquitlam, BC, Canada.

This report does not constitute certification of these products nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY:	Chris Chang	**REVIEWED BY:**	Baldeep Sandhu
TITLE:	Senior Tech – Building & Construction	**TITLE:**	Manager – Building & Construction
SIGNATURE:		**SIGNATURE:**	
DATE:	02/08/19	**DATE:**	02/08/19

1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

Telephone: 604-520-3321
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SECTION 2
SUMMARY OF TEST RESULTS

All samples were exposed to 1000 hours of salt spray per ASTM B117. Observations are outlined below:

DESCRIPTION	OBSERVATIONS
Thermal Corkshield	Slight color change observed as samples were darker shade of red when compared to control. Average mass loss was 0.5% and no other signs of damage were observed.

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SECTION 3
TEST METHOD

The specimens were evaluated in accordance with the following:

ASTM B117-18, *Standard Practice for Operating Salt Spray (Fog) Apparatus*

SECTION 4
MATERIAL SOURCE

The Thermal Corkshield samples were submitted to the Evaluation Center on December 21, 2018 (Coquitlam ID# VAN1902040853-001). Samples were not independently selected for testing.

SECTION 5
EQUIPMENT

ITEM	ID#	CALIBRATION
Atlas SF850 Salt Spray Chamber	22080	June 21, 2019

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Chris Chang	Intertek B&C

1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

Telephone: 604-520-3321
Facsimile: 604-524-9186
www.intertek.com

SECTION 7
TESTING AND EVALUATION METHODS

CONDITIONING

Before testing, specimens were held in standard laboratory conditions for at least 24 hours at a temperature of 23 ± 2°C and relative humidity of 50 ± 5 %.

SALT FOG RESISTANCE

Salt spray resistance was tested in accordance with ASTM B117-18, *Standard Practice for Operating Salt Spray (Fog) Apparatus.* Five (5) test specimens, each measuring 6 in. x 6 in., were weighed for their initla weights. Samples were then placed into an Atlas SF850 Salt Spray Chamber and supported between 15° and 30° from the vertical. Samples were all subjected to 1000 hours of exposure at 35 ± 2°C (95 ± 3°F). The salt solution was prepared to 5 ± 1 parts by mass of sodium chloride (less than 0.3% by mass of total impurities) in 95 parts of water (RO water conforming to Type IV of ASTM D1193). Two fog collectors were placed within the test chamber to ensure that the fog quantity was maintained at 1.0 to 2.0 mL of solution per hour. Additionally, the collected solution was tested to ensure the sodium chloride concentration was 5 ± 1 mass % and the pH was 6.5 to 7.2. At the completion of 1000 hours of exposure, samples were gently washed in warm running water. Samples were then conditioned and a visual examination was performed to check for signs of corrosion or other physical changes. The final weights were also taken. The mass loss for each sample was then calculated and averaged.

SECTION 8
SAMPLE AND ASSEMBLY DESCRIPTION

The product was identified as Thermal Corkshield, an exterior spray product made from cork that is designed to be installed over top of existing substrate. Six (6) samples, each measuring 6 in. x 6 in., were applied to a plastic substrate and then submitted for testing.

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SECTION 9
TEST RESULTS

Photos of the samples after 1000 hours of salt spray can be found below:

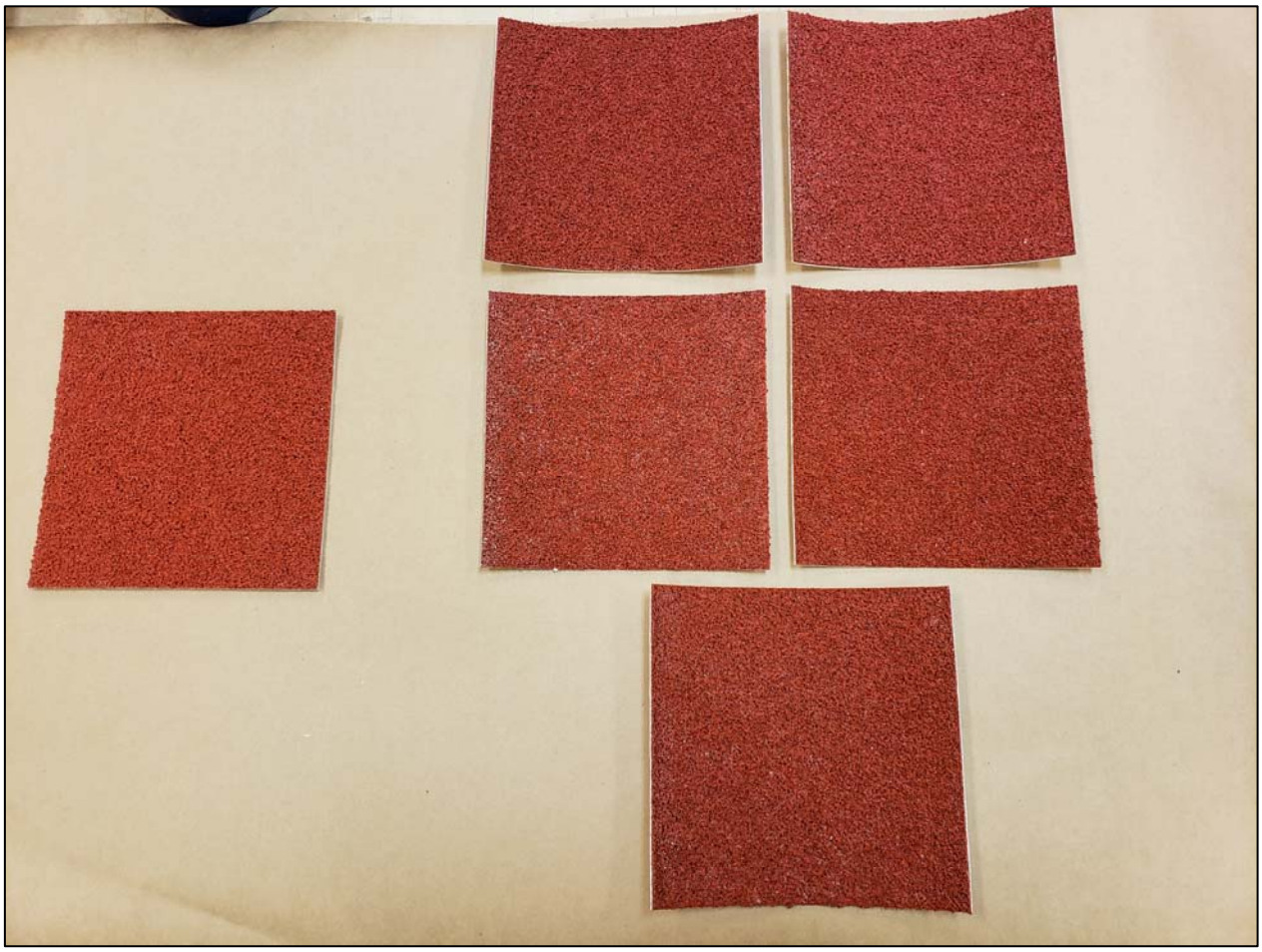

Figure 1. After 1000 hours Salt Spray
As Received (Left) and Tested Samples (Right x 5)

1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

Telephone: 604-520-3321
Facsimile: 604-524-9186
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SECTION 10
CONCLUSION

The 10665819 Canada Inc. Thermal Corkspray product identified and evaluated in this report has been tested per ASTM B117-18, *Standard Practice for Operating Salt Spray (Fog) Apparatus*. As there is no pass/fail criterion, only the product test results are presented in Section 9 of this report.

1500 Brigantine Drive
Coquitlam, BC, V3K 7C1

Telephone: 604-520-3321
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SECTION 11
APPENDIX A – TEST DATA (2 PAGES)

Company	10665819 Canada Inc.	Technician(s)	Chris Chang
Project No.	G103636641	Reviewer	Baldeep Sandhu
Models	Thermal Corkshield	Start/End Date	December 21 - February 1, 2019
Product Name	Same as above	Sample ID	VAN1902040853-001
Standard	**ASTM B117-18, *Standard Practice for Operating Salt Spray (Fog) Apparatus***		

Test Data Package

Table of Contents

Test: **Salt Fog Exposure**
Date: 21-Dec-18
Client: 10665819 Canada Inc.
Product: **Thermal Corkshield**
Test Standard(s): ASTM B117-18, *Standard Practice for Operating Salt Spray (Fog) Apparatus*
Equipment: ATLAS SF850 Salt Fog Spray Apparatus (Intertek ID# 22080, cal due June 21, 2019)
Exposure cycle: 1000 hours

Project #: G103636641
Eng/Tech: Chris Chang
Reviewer: Baldeep Sandhu
Location: Coquitlam, BC, Canada

Date	Temperature (C)		Quantity of Fog (ml/hr)		Salimeter	pH	Feed Refill
	Jacket	Bubble Tower	Near Tower	Away from Tower	(%)		(gal.)
21-Dec	START						43
2-Jan	35.0	48.0	1	1	5	6.61	42
3-Jan	35.0	47.8	1	1	5	6.62	41
4-Jan	35.0	48.0	1	1	5	6.61	40
7-Jan	34.9	47.8	1	1	5	6.61	40
8-Jan	34.9	48.0	1	1	5	6.62	38
9-Jan	34.8	48.1	1	1	5	6.61	38
10-Jan	34.9	48.1	1	1	5	6.60	37
11-Jan	35.0	48.0	1	1	5	6.60	37
14-Jan	35.1	48.0	1	1	5	6.60	36
15-Jan	35.0	48.0	1	1	5	6.58	34
16-Jan	35.0	48.2	1	1	5	6.58	34
17-Jan	35.0	48.1	1	1	5	6.61	33
18-Jan	35.0	48.2	1	1	5	6.61	33
21-Jan	35.0	48.2	1	1	5	6.61	32
22-Jan	34.9	47.9	1	1	5	6.62	29
23-Jan	34.9	48.0	1	1	5	6.62	28
24-Jan	34.9	48.0	1	1	5	6.62	28
25-Jan	34.8	48.2	1	1	5	6.60	27
28-Jan	34.8	48.1	1	1	5	6.60	26
29-Jan	34.8	48.1	1	1	5	6.60	24
30-Jan	35.1	48.2	1	1	5	6.59	24
31-Jan	35.1	47.9	1	1	5	6.59	23
1-Feb	35.0	47.9	1	1	5	6.60	22

Observations: Slight color change; no other damage.

Weights

	Sample				
	1	**2**	**3**	**4**	**5**
Initial - Weight (Individual)	37.072	32.645	38.881	30.75	38.923
Final - Weight (Individual)	36.551	32.275	38.975	30.602	39.039
Mass Loss (%)	**-1.4%**	**-1.1%**	**0.2%**	**-0.5%**	**0.3%**

Average Mass Loss **-0.5%**

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SECTION 12
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	02/08/19	N/A	Original Report Issue