

# LABORATORY TEST RESULTS

**Report for:** Jiangsu Canlon Building Materials Co., Ltd

NO.8, Hengtong Rd

Wujing Dist, Suzhou City 21534 People's Republic of China

**Attention:** Ms. Hannah Fang

Product Name(s):	Canlon MBP-P	Manufacturers:	Jiangsu Canlon Building Materials Co., Ltd			
Date(s) Received:	Jan. 22, 2018	Sampling:	Jiangsu Canlon Building			
			Materials Co., Ltd			
PRI-CMT Project No.:	JCBM-001-02-01	Dates Tested:	Mar. 1 – 23, 2018			

Subject:

Determine the 'Peel Strength to Concrete' of the Canlon MBP-P waterproofing membrane in accordance with ASTM D 903: *Standard Test Method for Peel or Stripping of Adhesive Bonds* after immersion in client specified reagents. The Canlon MBP-P membrane is a 1.8mm thick pre-applied waterproofing membrane composed of a 1mm HPDE sheet with a continuous adhesive layer on one-side and a factory adhesive lap. The adhesive layer is covered in sand.

**Test Methods:** 

Specimen conditioning was conducted in accordance with ASTM D 543-14 Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents and client specified conditions. Specimens were fully immersed in the chemical reagents after preparation for a period of 7 days at 50±2°C. The following reagents were used for specimen conditioning:

- 1. Tap water
- 2. Water + 500 ppm BTEX
- 3. Water + 500 ppm Perchloroethylene (a.k.a. PCE or PERC)

BTEX was prepared by mixing the following reagents:

- Benzene (11% by weight)
- Toluene (26% by weight)
- Ethylbenzene (11% by weight)
- Xylene (52% by weight)

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Peel strength testing to concrete was conducted in accordance with ASTM D 903-98(2010): Standard Test Method for Peel or Stripping of Adhesive Bonds. Specimens were prepared by casting a minimum 2" thick concrete slab over the adhesive side of the membrane. Specimens were allowed to cure at 23±2°C & 50±5%RH for seven (7) days prior to immersion in the aforementioned reagents. Specimens were tested at 23±2°C & 50±5 %RH using a 25mm wide specimen at 300 mm/min constant rate of extension.

**Product Sampling:** 

Canlon BMP-P samples were received on Jan. 22, 2018 from Suzhou City, People's Republic of China.

#### **Results:**

**Table 1.** ASTM D 903 Peel Strength over Concrete After Chemical Immersion

Conditioning	Peel Strength (N/m)							
Temperature	втех	Perchloroethylene	Unexposed Control <sup>1</sup>					
50°C	4,260	4,150	4,680					

Note: 1) Unexposed control specimens were maintained at 23±2°C & 50±5 %RH during the exposure period.

### **Statement of Attestation:**

The results of testing were determined in accordance with test methods described herein. The laboratory test results presented in this report are representative of the material supplied.

Signed:

Zachary Priest, P.E.

Director

# **Report Issue History:**

Issue #	Date	Pages	Revision Description (if applicable)				
Original	03/23/2018	3	NA				
Rev 1	04/09/2018	3	Updated data tables				

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# Raw Data:

Cample	Peel Strength (lbf/in.)											
Sample	1	2	3	4	5	6	7	8	9	10	Avg.	St. Dev.
Canlon BTEX 50C	26.2	28.1	27.1	28.4	25.6	26.0	16.9	19.6	23.0	21.8	24.3	3.8
Canlon PCE 50C	26.7	26.9	26.3	26.8	27.3	27.9	17.5	16.8	20.2	20.4	23.7	4.4
Canlon Control	28.3	28.2	26.7	25.1	26.3	25.7	26.9	24.9	27.1	27.7	26.7	1.2

Sample		Peel Strength (N/m)										
	1	2	3	4	5	6	7	8	9	10	Avg.	St. Dev.
Canlon BTEX 50C	4,590	4,920	4,750	4,970	4,480	4,550	2,960	3,430	4,030	3,820	4,260	670
Canlon PCE 50C	4,680	4,710	4,610	4,690	4,780	4,890	3,060	2,940	3,540	3,570	4,150	770
Canlon Control	4,960	4,940	4,680	4,400	4,610	4,500	4,710	4,360	4,750	4,850	4,680	210

## **END OF REPORT**

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