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Testing, calibrating, advising

*Evaluation Report for DURABOND Traffic Bearing Waterproofing  
(Durex® Uraflex 360/361)*

To

**ASTM C957-17** (Standard Specification for High-Solids Content,  
Cold Liquid-Applied Elastomeric Waterproofing Membrane with  
Integral Wearing Surface)

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## Summary Letter

**Durabond**  
6178 Netherhart Rd.  
Mississauga, Ontario

**Report No.:** 18-06-P0210 and P0075  
**Date:** 2018-12-11

Attn: **Asad Zafar** / Technical Director, Canada  
Email: Asad.Zafar@durabond.com  
Tel : 905 565 9283

At the request of Durabond, Exova was retained to evaluate a waterproofing membrane for physical properties in accordance with ASTM C957-17 "Standard Specification for High-Solids Content, Cold Liquid- Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface". Samples were prepared in two phases by the client and were shipped to Exova Mississauga Facility for testing. Asad Zafar Technical Director of Durabond provided a letter (dated on 3<sup>rd</sup> December 2018) stating that the two submitted test samples were of the same formulation and composition.

Upon receipt the samples were assigned the following Identification Numbers:

Client Sample Identification	Exova Sample No.
Durex@Uraflex360/Uraflex361 – Sample 1	18-06-P0075
Durex@Uraflex360/Uraflex361 – Sample 2	18-06-P0210

Testing performed on the samples are as below:

- Weight Loss of the base coat
- Low temperature crack bridging
- Adhesion in peel (water immersion)
- Chemical resistance
- Weathering resistance\*
- Abrasion resistance

\*Passing results with 2<sup>nd</sup> phase of test samples submitted

The "Durex@Uraflex360/Uraflex361" material submitted by Durabond for performance evaluation meets the "Pass" criterion when tested in accordance with ASTM C957/C957M-17. Detailed test results are reported in Exova Reports No. 18-06-P0075- A to G and 18-06-P0210.

**Reported by:**

Muhammad Ahsan, B.Eng. Ext. 11221  
Building Products Specialist  
Products Testing Group

**Approved by:**

Rubaiyat Khondker, P.Eng, Ext. 11662  
Supervisor, Building Products  
Products Testing Group

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**EVALUATION OF "URAFLEX360" MATERIAL  
FOR WEIGHT LOSS OF BASE COAT  
IN ACCORDANCE WITH ASTM C957/C957M-17, REFERENCING ASTM D6511-18**

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A Report to:

**Durabond**  
55 Underwriters Rd.  
Toronto, ON  
M1R 3B4

Attention:

Anthony Rapone

Telephone:  
Email:

905 565 9283 ext. 131  
Anthony.Rapone@durabond.com

Proposal No.:

18-006-546376

Report No.:

18-06-P0075-F-Revision 1  
3 Pages

Date:

September 19, 2018

## 1.0 INTRODUCTION

At the request of *Durabond*, Exova was retained to evaluate a waterproofing membrane material for Weight Loss of the Base coat in accordance with ASTM C957/C957-17 section 5.11, referencing ASTM D6511-18. The samples were provided by the client and mixing ratio was as instructed by the client.

Upon receipt, the sample was assigned the following Exova Sample Number:

Client Sample Identification	Exova Sample No.
BASECOAT (URAFLEX360)	18-06-P0075-F

## 2.0 PROCEDURE

The sample was tested as below:

Test Description	Test Method
Standard Test Method for Solvent Bearing Bituminous Compounds- "Non Volatile Content"	ASTM D6511/D6511M-18 Section 7

Number of Specimen: 2 (Two)  
Substrate: Metal Dish , 65 mm dia  
Exposure: 70 ± 2°C for 72 hours.  
Equipment: Oven MII#A02759  
Logger MII# B10864  
Digital Weight Balance MII#A13956

Test Date: 2018-09-11 to 2018-09-14

Observation: The mixing ratio of the Topcoat and the Basecoat was instructed by the client.

**3.0 RESULTS**

A summary of results is presented below in Table. SI units are the primary units of measure.

<b>Table 1 – Summary of Abrasion Resistance Test Results</b> Exova Sample No. 18-06-P0075-F ASTM C957-17					
Specimen	Initial Mass, g	Mass after 72 Hours Exposure, g	Weight loss % $\frac{Initial\ m - Final\ m}{Initial\ m} \times 100$	Requirement of ASTM C957 Table 1 Maximum %	Pass/Fail
1	10.230	10.209	0.20	40%	Pass
2	10.260	10.240	0.19		Pass

**4.0 CONCLUSIONS**

The sample material submitted by *Durabond* for weight loss of base coat evaluation meets the “Pass” criterion when tested in accordance with ASTM C957/C957M-17, referencing ASTM D6511-18, as described in this report.

**5.0 REPORT REVISION SUMMARY**

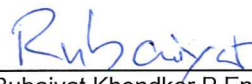
<u>Revision No.:</u>	<u>Date:</u>	<u>Description of Revisions</u>
Original	2018-09-18	Final Report
Revision1	2018-09-19	Change in Client Sample Identification

**Reported by:**



Muhammad Ahsan, B.Eng., E.I.T, Ext 11221  
Building Products Specialist  
Products Division

**Approved by:**



Rubaiyat Khondker, P.Eng Ext. 11662  
Supervisor, Building Products  
Products Division

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**EVALUATION OF "BASE COAT" MATERIAL  
FOR CRACK BRIDGING PERFORMANCE  
IN ACCORDANCE WITH ASTM C957/C957M-17, REFERENCING C1305/C1305M - 16**

---

A Report to:

**Durabond**  
55 Underwriters Rd.  
Toronto, ON  
M1R 3B4

Attention:

Anthony Rapone

Telephone:  
Email:

905 565 9283 ext. 131  
Anthony.Rapone@durabond.com

Proposal No.:

18-006-546376

Report No.:

18-06-P0075-A  
3 Pages

Date:

July 12, 2018

## 1.0 INTRODUCTION

At the request of *Durabond*, Exova was retained to evaluate a waterproofing membrane material applied on specified concrete blocks for crack bridging testing performance in accordance with ASTM C957/C957-17, referencing ASTM C1305 / C1305M-16.

Upon receipt, the sample was assigned the following Exova Sample Number:

Client Sample Identification	Exova Sample No.
BASECOAT – greyish colored membrane	18-06-P0075-A

## 2.0 PROCEDURE

The sample was tested as below:

Test Description	Test Method
Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane	ASTM C1305 / C1305M-16

No. of Specimens: 5

Equipment: Applied Testing System, Inc. Series 520 Sealing Compound Tester, MII# A15025

Thermocouple, MII# B10864  
Thermotron Env. chamber, MII# B04271

Pre Conditioning: 23 ± 2°C; 50 ± 2% Relative Humidity, 14 days  
Pre Conditioning: 70°C for 7 days  
Test Temperature: -26 °C ± 2°C

Test Cycles: 10 cycles  
Rate: Extension or compression of the two cement supports at a rate 1.6 mm/h (m)

Test duration: 10 cycles in 24 hours

Test Date: 2018-05-31 to 2018-06-02

**3.0 RESULTS**

A summary of results is presented below in Table and Photo 1.

<b>Table 1 – Crack Bridging Test</b> ASTM C957/C957M-17, referencing ASTM C1305/C1305M -16 Exova Sample No.: 18-06-P0075-A				
Sample ID	Number of Exposed Specimen	Test parameters	Observation	Comments
A	5	10 cycles at -26°C	Observed after completion of test cycles for visible cracking, blistering, pinhole or other defects	No cracks (5/5)



**Photo 1:** After 10 cycle of expansion and contraction specimen surface – no cracks

**4.0 CONCLUSIONS**

The "Basecoat" material submitted by *Durabond* for Crack Bridging ability performance evaluation meets the "Pass" criterion when tested in accordance with ASTM C957/C957M-17, referencing ASTM C1305/C1305M-16, as described in this report.

**5.0 REPORT REVISION SUMMARY**

<u>Revision No.:</u>	<u>Date:</u>	<u>Description of Revisions</u>
Original	2018-07-12	Original document

**Reported by:**

*Rubaiyat*  
 Rubaiyat Khondker, M.A.Sc., P.Eng., Ext 11662  
 Sr. Technical Advisor, Building Products  
 Products Division

**Approved by:**

*Franz Bauer*  
 Franz Bauer, Ext. 11403  
 Tech. Manager, Building Products  
 Products Division

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**EVALUATION OF “WATER PROOFING MEMBRANE” MATERIAL  
FOR ADHESION IN PEEL AFTER WATER IMMERSION  
IN ACCORDANCE WITH ASTM C957/C957M-17, REFERENCING ASTM C794-18**

---

A Report to:

**Durabond**  
55 Underwriters Rd.  
Toronto, ON  
M1R 3B4

Attention:

Anthony Rapone

Telephone:  
Email:

905 565 9283 ext. 131  
Anthony.Rapone@durabond.com

Proposal No.:

18-006-546376

Report No.:

18-06-P0075-D  
3 Pages

Date:

September 10, 2018

**1.0 INTRODUCTION**

At the request of *Durabond*, Exova was retained to evaluate a waterproofing membrane material for adhesion in peel performance in accordance with ASTM C957/C957-17, referencing ASTM C794-18. Samples were prepared by the client and shipped to Exova facility.

Upon receipt, the sample was assigned the following Exova Sample Number:

Client Sample Identification	Exova Sample No.
BASECOAT (URAFLEX360)	18-06-P0075-D

**2.0 PROCEDURE**

The sample was tested as below:

Test Description	Test Method
Standard Test Method for Adhesion in Peel of Elastomeric Joint Sealants	ASTM C794-18

Number of Specimen: 4 (Four)  
 Specimen Width: 25 mm (nominal)  
 Crosshead Speed: 50 mm / min  
 Substrate: Cement Mortar  
 Test Temperature: 23°C  
 Load Cell: 5 kN  
 Pre Conditioning: 14 days at 23 ± 2°C & 50± 5% RH  
 7 days at 70°C

Water Immersion: 7 days in distilled water conditioned at 23 ± 2°C

Equipment: Instron Frame MII# A04407  
 Load Cell MII# B06348  
 Callipers MII# B13123

Test Date: 2018-09-05

Observation: Due to stiffness of the material, it was difficult to bend the test specimen at 180 degree to the test fixture, which showed variation in the test result

### 3.0 RESULTS

A summary of results is presented below in Table. SI units are the primary units of measure.

Table 1 – Adhesion in Peel After Water Immersion Testing ASTM C957/C957M-17, referencing ASTM D794-18 Exova Sample No.: 18-06-P0075-D			
Sample ID	Maximum Load N	Requirement of ASTM C957 min. Average N	Pass/Fail
1	114	22.2	Pass
2	106		Pass
3	237		Pass
4	44		Pass
Avg	126		Pass

### 4.0 CONCLUSIONS

The “Basecoat-Uraflex360” material submitted by *Durabond* for adhesion in peel after water immersion performance evaluation meets the “Pass” criterion when tested in accordance with ASTM C957/C957M-17, referencing ASTM C794-18, as described in this report.

### 5.0 REPORT REVISION SUMMARY

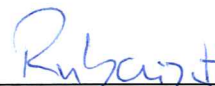
<u>Revision No.:</u>	<u>Date:</u>	<u>Description of Revisions</u>
Original	2018-09-10	Final Report

**Reported by:**



Muhammad Ahsan, B.Eng., E.I.T, Ext 11221  
Building Products Specialist  
Products Division

**Approved by:**



Rubaiyat Khondker, P.Eng Ext. 11662  
Supervisor, Building Products  
Products Division

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**EVALUATION OF “BASECOAT-URAFLEX 360” MATERIAL  
FOR CHEMICAL RESISTANCE  
IN ACCORDANCE WITH ASTM C957/C957M-17, REFERENCING ASTM D412 - 16**

---

A Report to:	<b>Durabond</b> 55 Underwriters Rd. Toronto, ON M1R 3B4
Attention:	Anthony Rapone
Telephone: Email:	905 565 9283 ext. 131 Anthony.Rapone@durabond.com
Proposal No.:	18-006-546376
Report No.:	18-06-P0075-C 3 Pages , 1 Appendix
Date:	Aug 09, 2018

## 1.0 INTRODUCTION

At the request of *Durabond*, Exova was retained to evaluate a waterproofing membrane material for Chemical Resistance performance in accordance with STM C957/C957-17, referencing ASTM D412-16 Method A Die C .

Upon receipt, the sample was assigned the following Exova Sample Number:

Client Sample Identification	Exova Sample No.
BASECOAT – Uraflex 360	18-06-P0075-C

## 2.0 PROCEDURE

The sample was tested as below:

Test Description	Test Method
Standard Test Method for Vaulcanized Rubber and Thermoplastic Elastomers Tension	ASTM D412-16 Method A Die C

No. of Specimens: 10 Control Specimens  
5 Each Exposure  
Specimen Size: Dumbbell Shape Die C specimens  
Cross Head Speed: 500 mm/min  
Equipment: Instron Frame MII# A04407  
Load Cell MII# B06348  
Callipers MII# B13123  
Grip Separation: 51 mm  
Specimen width: 6 mm  
Average Thickness: 1.3 mm (Nominal Average)  
Pre Conditioning: 23 ± 2°C; 50 ± 2% Relative Humidity, 21 days  
Pre Conditioning: 70°C for 7 days  
Test Liquid Exposure: 14 days in Water, Ethylene Glycol and Mineral Spirits  
Test Date: 2018-07-23

### 3.0 RESULTS

A summary of results is presented below in Table and Photo 1.

<b>Table 1 – Chemical Resistance Testing</b> ASTM C957/C957M-17, referencing ASTM D412-16 Exova Sample No.: 18-06-P0075-C					
Sample ID	Exposure	Tensile Strength at Maximum Load kPa	Tensile Retention of Control Specimens	Requirement of ASTM C957 min. Average	Pass/Fail
A	Ten (10) Control Specimens	3148	-		-
B	5 Water Specimens	3661	116%	70%	Pass
C	Five (5) Mineral Spirit Specimens	3273	104%	45%	Pass
D	Five (5) Ethylene Glycol Specimens	3227	103%	70%	Pass

### 4.0 CONCLUSIONS

The "Basecoat-Uraflex360" material submitted by *Durabond* for chemical resistance performance evaluation meets the "Pass" criterion when tested in accordance with ASTM C957/C957M-17, referencing ASTM D416-16, as described in this report.

### 5.0 REPORT REVISION SUMMARY

<u>Revision No.:</u>	<u>Date:</u>	<u>Description of Revisions</u>
Original	2018-08-09	Final Report

**Reported by:**



Muhammad Ahsan, B.Eng., E.I.T, Ext 11221  
Building Products Specialist  
Products Division

**Approved by:**



Franz Bauer, Ext. 11403  
Tech. Manager, Building Products  
Products Division

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**APPENDIX A**

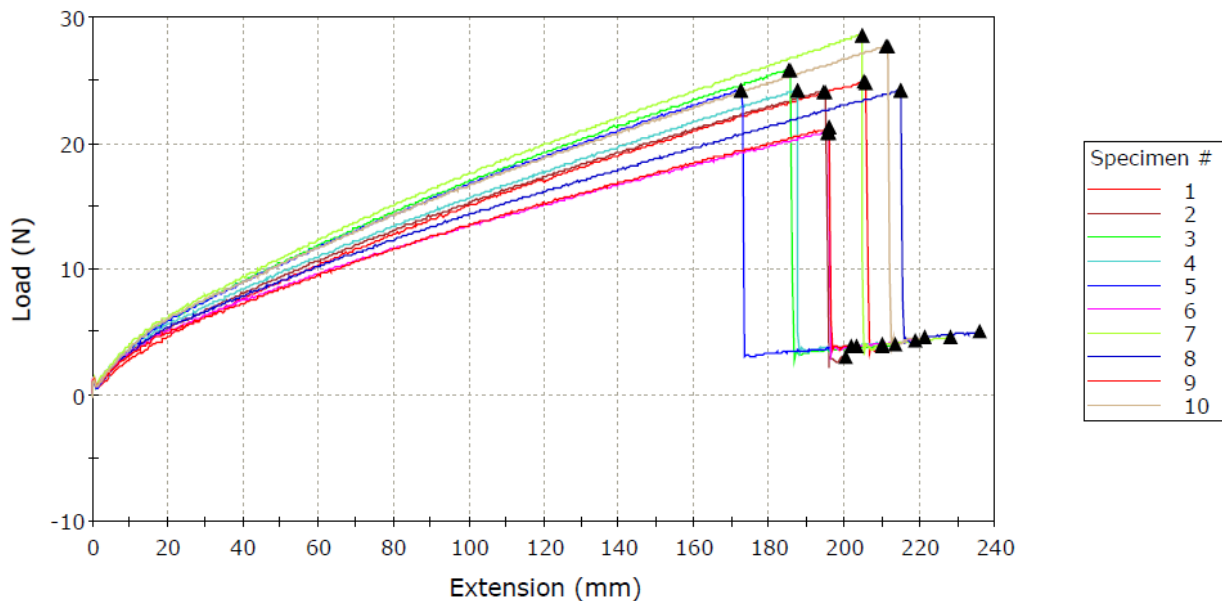
**Detailed Test Results of Chemical Resistance Testing**

(4 Pages)

**A1- Test Results of Control Specimens:**

Table A1: Summary of Tensile Test Results-Control Specimens				
ASTM D412-16 Method A Die C				
Exova Sample No.: 18-06-P0075 (Control Specimens)				
No.	Width mm	Area mm <sup>2</sup>	Maximum Load N	Tensile Stress at Maximum Load kPa
1	6	7.8	25	3186
2	6	7.8	24	3087
3	6	7.8	26	3307
4	6	7.8	24	3099
5	6	7.8	24	3099
6	6	7.8	21	2671
7	6	7.8	29	3664
8	6	7.8	24	3097
9	6	7.8	21	2724
10	6	7.8	28	3546
<b>Avg.</b>	6	7.80	<b>25</b>	<b>3148</b>

ASTM D412 18-06-P0075 - Durabond Initial As Recieved



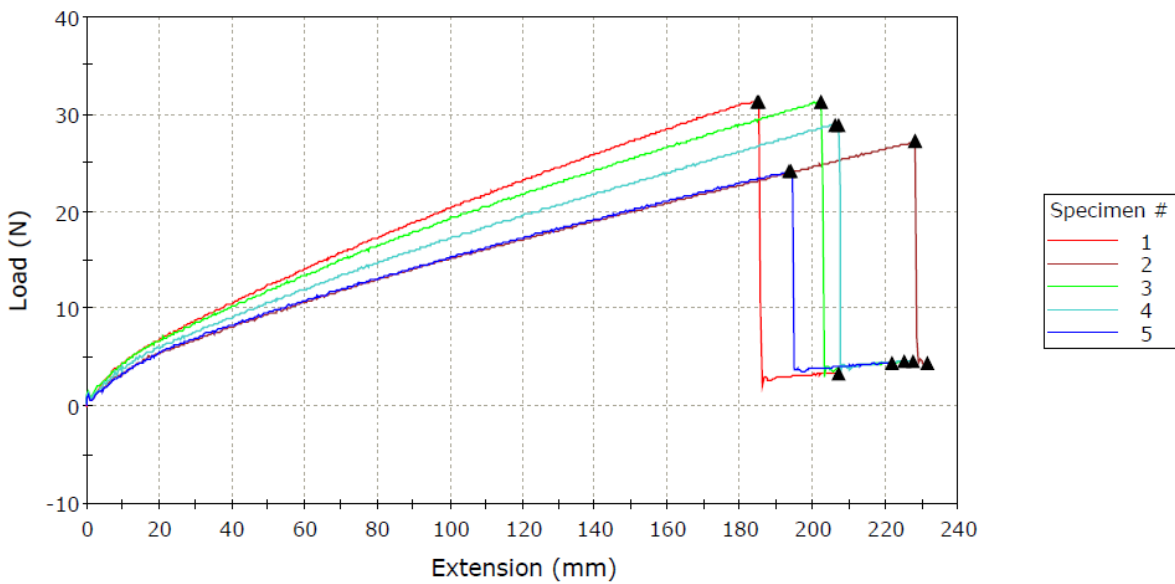
**Figure A1: Load Vs Extension Graph – Control Samples**



**A2 - Test Results of Water Specimens:**

<b>Table A2: Summary of Tensile Test Results-Water Exposed Specimens</b> ASTM D412-16 Method A Die C Exova Sample No.: 18-06-P0075 (Water Specimens)				
No.	Width mm	Area mm <sup>2</sup>	Maximum Load N	Tensile Stress at Maximum Load kPa
1	6	7.8	31	4016
2	6	7.8	27	3480
3	6	7.8	31	4010
4	6	7.8	29	3709
5	6	7.8	24	3091
<b>Avg.</b>	6	7.80	<b>29</b>	<b>3661</b>

ASTM D412 18-06-P0075 - Durabond Water Exposed

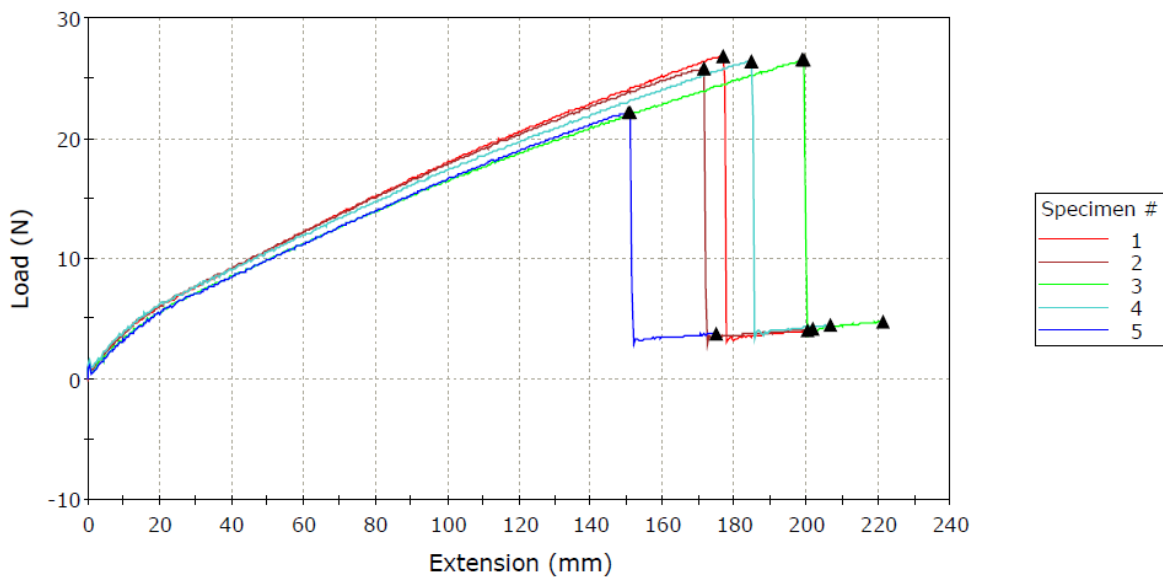


**Figure A2: Load Vs Extension Graph – Water Exposed Samples**

**A3 - Test Results of Mineral Spirit Specimens:**

<b>Table A3: Summary of Tensile Test Results-Mineral Spirit Exposed Specimens</b> ASTM D412-16 Method A Die C Exova Sample No.: 18-06-P0075 (Mineral Spirit Specimens)				
No.	Width mm	Area mm <sup>2</sup>	Maximum Load N	Tensile Stress at Maximum Load kPa
1	6	7.8	27	3441
2	6	7.8	26	3308
3	6	7.8	26	3396
4	6	7.8	26	3384
5	6	7.8	22	2838
<b>Avg.</b>	6	7.80	<b>26</b>	<b>3273</b>

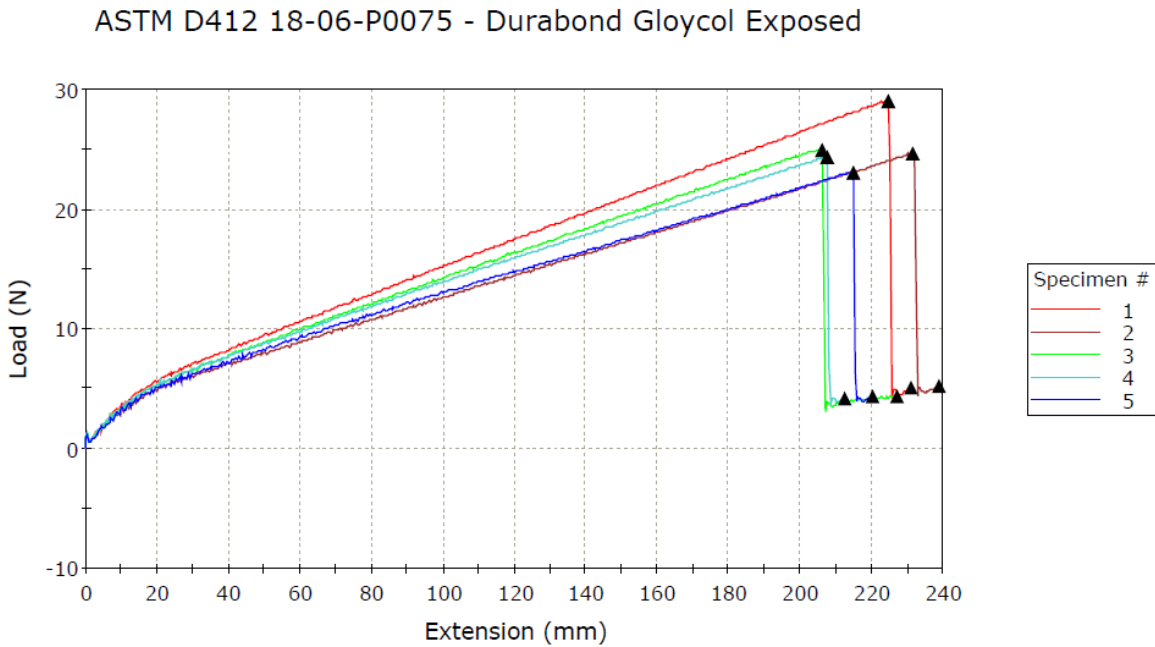
ASTM D412 18-06-P0075 - Durabond Mineral Spirit Exposed



**Figure A2: Load Vs Extension Graph – Mineral Spirit Samples**

**A4 - Test Results of Ethylene Glycol Specimens:**

<b>Table A4: Summary of Tensile Test Results-Ethylene Glycol Exposed Specimens</b> ASTM D412-16 Method A Die C Exova Sample No.: 18-06-P0075 (Ethylene Glycol Specimens)				
No.	Width mm	Area mm <sup>2</sup>	Maximum Load N	Tensile Stress at Maximum Load kPa
1	6	7.8	29	3718
2	6	7.8	25	3152
3	6	7.8	25	3199
4	6	7.8	24	3118
5	6	7.8	23	2950
<b>Avg.</b>	6	7.80	<b>25</b>	<b>3227</b>



**Figure A4: Load Vs Extension Graph – Mineral Spirit Samples**

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**EVALUATION OF "TOPCOAT-URAFLEX 361" MATERIAL  
FOR ABRASION RESISTANCE  
IN ACCORDANCE WITH ASTM C957/C957M-17, REFERENCING ASTM C501**

---

A Report to:

**Durabond**  
55 Underwriters Rd.  
Toronto, ON  
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Attention:

Anthony Rapone

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Anthony.Rapone@durabond.com

Proposal No.:

18-006-546376

Report No.:

18-06-P0075-G  
3 Pages ,

Date:

September 25, 2018

## 1.0 INTRODUCTION

At the request of *Durabond*, Exova was retained to evaluate a waterproofing membrane material for Abrasion Resistance performance in accordance with ASTM C957/C957-17 Section 5.9, referencing ASTM C501. Samples were prepared by the client and shipped to Exova Mississauga Facility.

Upon receipt, the sample was assigned the following Exova Sample Number:

Client Sample Identification	Exova Sample No.
TOPCOAT – Uraflex 361	18-06-P0075-G

## 2.0 PROCEDURE

The sample was tested as below:

Test Description	Test Method
Standard Test Method for Relative Resistance to Wear of Unglazed Ceramic Tile by the Taber Abreaser	ASTM C501-84 (Reapproved 2009)

Specimen No.:	4 (Four) specimens were tested
Sample Dimensions:	100 mm x 100 mm x thickness of the sample (Nominal)
Pre Conditioning and Testing:	14 days at 23 ± 2 °C and 50 ± 5% RH followed by 7 days at 70 ± 2 °C
Equipment:	Digital Balance, MII# A13956 Environ. Controller, Ref MII# B14944 Taber Rotary Abraser, Ref MII# A10122 (5150 Abraser)
Wheel Type Used:	CS-17 Abrasion Wheel
Vacuum Nozzle Height:	1.5 mm above the specimen surface
Vacuum suction setting:	100
Load per Wheel:	1000g
Number of wear cycles:	1000 for each specimen, weight loss was calculated
Test Date:	2018-09-24

### 3.0 RESULTS

Test results are presented in Table 1. SI units are the primary unit of measure.

Table 1 – Summary of Test Results				
Exova Sample No. 18-06-P0075-G				
ASTM C957-17				
Specimen	Initial Mass, g	Mass after 1000 cycles, g	Requirement in ASTM C957 Table 1, mg	Weight Loss after 1000 cycles, mg
Specimen 1	85.478	85.466	Max.50	12
Specimen 2	87.295	87.279		16
Specimen 3	84.707	84.682		25
Specimen 4	88.154	88.130		24
Average	86.409	86.389		19

### 4.0 CONCLUSIONS

The “Topcoat-Uraflex361” material submitted by *Durabond* for abrasion resistance evaluation meets the “Pass” criterion when tested in accordance with ASTM C957/C957M-17, referencing ASTM C501, as described in this report.

### 5.0 REPORT REVISION SUMMARY

<u>Revision No.:</u>	<u>Date:</u>	<u>Description of Revisions</u>
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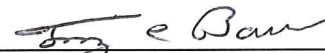
Original	2018-09-25	Final Report
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Reported by:



Muhammad Ahsan, B.Eng., E.I.T, Ext 11221  
Building Products Specialist  
Products Division

Approved by:



Franz Bauer, Ext. 11403  
Tech. Manager, Building Products  
Products Division

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