



TO: Malcolm Lockhart
FROM: Kevin Cummings *K. P. Cummings*
DATE: January 18, 2019
SUBJECT: LEXCOAT ONE ASTM C-957 TESTING – Revised

DATE: January 18, 2019

PO#: 715605-01

PROCEEDURE:

ASTM C 957 Standard Specification for High-Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface Test Report

TEST MATERIAL: Lexcoat One (Lot # 21103188/21103209)

RESULTS:

1. Dry Film Thickness: 3 coats, 28 ± 2 mils (0.12 ± 0.005 cm)*
2. Weight Loss: ASTM 957, C-836 (max. 40%): 8.51% **Passed**
3. Low Temperature Flexibility and Crack Bridging: 10 cycles, 1/8" movement, @ -15°F: **Passed**
4. Adhesion in Peel: after water immersion (7 days, min cement 5 lbf/in plywood 3 lbf/in.), ASTM 957, C-794: Concrete 18.5 lbf/in. Plywood 21.53 lbf/in. **Passed**
5. Chemical Resistance: ASTM C-957, D-471: **Passed**

	<u>% Retention Tensile (min) LEXCOAT ONE</u>	<u>% Retention Elongation (min) LEXCOAT ONE</u>
Water	86.28 (70)	98.39
Ethylene Glycol	75.29 (70)	112.64
Mineral Spirits	52.82 (45)	109.23

6. Weather Resistance and Recovery from Elongation: ASTM C-957, D-412: **Passed**

	<u>Elongation Recovery initial (%)</u>	<u>Tensile Retention (%)</u>	<u>Elongation Retention (%)</u>
B-308 Top	98.39 (min 90%)	112.64(min 80%)	109.23 (min 90%)

7. Abrasion Test: ASTM C-957, C-501, weight loss (Maximum allowed: 0.050 grams): 0.025 grams (average of 4 samples) **Passed**

This report may not be reproduced except in full without written approval by C-TEK. This report represents interpretations of the results obtained from the test specimen and is not to be construed as a guarantee or warranty of the condition of the entire material or lot. If the method used is a customer provided, non-standard test method, C-TEK does not assume responsibility for validation of the method.

C-TEK
 TESTING SERVICES

1606 Williams Way ♦ West Chester, PA ♦ 19380
 Ph 610-563-8893 ♦ krcummings@aol.com

8. Adhesion to concrete ASTM 917 lightweight concrete, 3,000 psi concrete, high density concrete, plywood, asphaltic concrete **Passed**

LEXCOAT ONE TECHNICAL PROPERTIES

Solids by Volume 100%

VOC* ASTM D-2369-81 0 lb/gal

Viscosity @ 77°F 38 poise

Pot Life @ 75°F, 50% RH 18-20 min

Full Cure Time @ 75°F, 50% RH 72 hrs

Hardness ASTM D-2240 85 A

Tensile Strength ASTM D-412 3200 ± 300 psi

Elongation ASTM D-412 450 ± 50 %

Tear Resistance ASTM D-624 350 ± 40 pli

Adhesive Peel Strength ASTM D-4541 40 pli

Abrasion Resistance ASTM D-4060,

CS-17 Wheel,

1 kg wt 1000 cycles 1.8 mg loss

Water Absorption ASTM D-471 1.3 %

WVT** ASTM E-96 1.54 perms

U.V. Stability 2000 hrs No Discoloration,

Cracking or Crazing.

No Physical Damages

* Volatile Organic Compounds

** Water Vapor Transmission

This report may not be reproduced except in full without written approval by C-TEK. This report represents interpretations of the results obtained from the test specimen and is not to be construed as a guarantee or warranty of the condition of the entire material or lot. If the method used is a customer provided, non-standard test method, C-TEK does not assume responsibility for validation of the method.

C-TEK
TESTING SERVICES

1606 Williams Way ♦ West Chester, PA ♦ 19380
Ph 610-563-8893 ♦ krcummings@aol.com