



74 Kent Street  
Brooklyn, New York 11222-1517

Phone (718) 383-5080  
Fax (718) 383-7445  
E-mail: dllabs@aol.com

Accredited by National Voluntary Laboratory Accreditation Program - Lab Code 100252  
ISO / IEC 17025 and relevant requirements of ISO 9002

March 14, 2008

Andek Corporation  
850 Glen Avenue  
P. O. Box 392  
Moorestown, N. J. 08057

Att: **Mr. Neal Shearer**  
**Chemist**

**Re: DL-15530**  
**Via FAX (856) 786-0580**

### **OBJECTIVE**

To evaluate an Andek Coating System (Clearcoat 44 High Performance Clear Polyurethane Topcoat and NW "Z" Grade Synthetic Rubber Base Coat) in accordance with the Sealant Waterproofing and Restoration Institute (SWRI) Priority Performance Property Profile for Deck Coating Systems.

### **PROCEDURE**

1. DL obtained information from Andek regarding their lot number code system in order to identify "current" products.
2. The deck coatings were purchased by DL from the following source:

Allied Building Products Corp.  
42-16 Eleventh Street  
Long Island City, NY 11101

3. Testing was carried out in accordance with SWRI protocol.

### **PRODUCTS TESTED**

NW "Z" Grade Synthetic Rubber Deck Base Coat  
Color: White  
Batch No: L-702

Clearcoat 44 High Performance Clear Polyurethane Topcoat  
Color: Clear  
Batch No: K-743

This report may contain test data obtained from test methods not covered by NVLAP accreditation. See reverse side for those test methods which are covered.

This report shall not be reproduced except in full without the prior written approval of the DL Labs, Inc. The information contained herein is not endorsed by NVLAP or any other agency of the U.S. government and no such endorsement may be claimed.



### PRODUCTS TESTED (cont.)

Polaprime 21 Solvent Based Polyurethane Primer  
Color: Clear  
Batch No.: K-714

Test Started: February, 2008

Test Completed: March , 2008

### TEST PROCEDURES

The Tensile Properties of the Clearcoat 44 topcoat was determined following procedures outlined in ASTM D 412, "Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers – Tension", using free films prepared at 10 mils dry film thickness. The films were allowed to cure for fourteen days before initiating the test. Ten specimens of the coating were cut out using a "C" Die and pulled on a Tensile Tester at a crosshead speed of 2 inches per minute. The average ultimate tensile strength and elongation were reported.

The Pull-Off Adhesion of the NW 'Z' Grade basecoat was determined following procedures outlined in ASTM D 4541, "Test Method for Full-Off Strength of Coatings Using Portable Adhesion Testers". The mortar substrate was primed with Polaprime 21 polyurethane primer. The primer was applied by brush at a coverage rate of approximately 6 mils wet film thickness and allowed to dry to it was tack free. The NW 'Z' Grade basecoat was then applied in two coats, each coat at approximately 15 mils wet film thickness, with an overnight dry between coats and then allowed to dry for fourteen days at standard conditions before initiating the test.

The Abrasion Resistance of the Clearcoat 44 topcoat was determined following procedures outlined in ASTM D 4060, "Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser", using CS-17 wheels and 1,000 grams load. The Polyprime 21 primer was applied to metal panels, which were then topcoated with the NW 'Z' base coat. The basecoat was applied in two coats, each at 15 mils wet film thickness, with an overnight dry between coats. The Clearcoat 44 topcoat was then applied at approximately 6 mils wet film thickness and allowed to cure for fourteen days before initiating the test. Three specimens of the coating were prepared and tested and the average abrasion resistance recorded.



## TEST RESULTS

The test results are shown below:

<u>Test</u>	<u>Product</u>	<u>Results</u>	<u>Reported from Specification Sheet</u>
Tensile Strength, psi	Clearcoat 44	2,150 psi	2,000 psi
Elongation, %	Clearcoat 44	540%	500%
Pull-Off Adhesion, psi	NW 'Z'	650 psi	600 psi
Abrasion Resistance - mgms loss/1,000 cycles	Clearcoat 44	32 mgms	30 mgms

## CONCLUSIONS

- 1) The sample of Clearcoat 44 Topcoat exhibits Tensile Strength and Elongation values similar to stated capabilities published on the Manufacturers Technical Data Sheets and within the reproducibility of the method as stated in the Precision and Bias section of ASTM D 412,
- 2) The sample of NW 'Z' Grade Synthetic Rubber Basecoat exhibited a Pull-Off Strength similar to stated capabilities published on the Manufacturers Technical Data Sheets and within the reproducibility of the method as stated in the Precision and Bias section of ASTM D 4541.
- 3) The sample of Clearcoat 44 Topcoat exhibited an abrasion loss similar to stated capabilities published on the Manufacturers Technical Data Sheets and within the reproducibility of the method as stated in the Precision and Bias section of ASTM 4060.

**DL Labs, Inc.**

A handwritten signature in black ink, appearing to read 'Thomas J. Sliva'.

Thomas J. Sliva  
Vice President /  
Technical Director

cc: M. Lazaro, Jr.