



# GAYNES LABS, INCORPORATED

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April 21, 2014

Kewaunee Scientific Corporation  
2700 West Front Street  
Statesville NC 28677

**Attention:** Mr. David Foote  
**Regarding:** SEFA 3 Chemical/Stain Resistance Tests  
Gaynes Job No. 14264-1 Kewaunee P. O. No. 37775

Dear Mr. Foote:

Please find below, the procedures and results of the tests that were conducted on a epoxy-like table/bench top described as: Solid Black Gloss. The test panel surface had a flat smooth gloss appearance. The test panel was 14" x 14" x 1" t. and was received in good condition.

## **TEST PROCEDURE:**

The test was conducted in accordance with SEFA 3 Work Surfaces, Section 2.1.1 Chemical/Stain Resistance Test. The panel was submitted with a symmetrical grid of 49 squares (each 2" x 2").

**Test Method A** - For volatile chemicals - A cotton ball, saturated with the test chemical, was placed in a small glass bottle (approx. 1 oz.). The container was inverted on the test material surface for a period of 24 hours at 73° +/- 4° F.

**Test Method B** - For non-volatile chemicals - 5 drops (1/4 cc) of the test chemical were placed on the test material surface. The chemical was covered with a domed plastic cover (approx. 25 mm) for a period of 24 hours at 73° +/- 4° F.

After 24 hours exposure, exposed areas were washed with water, then a detergent solution and finally with isopropyl alcohol. The panel was then rinsed with distilled (deionized) water and dried with a cloth. Each area of chemical exposure was numerically rated per Section 2.1.2.

The panel was visually evaluated (under fluorescent lighting) using the SEFA 3 section 2.1.2 Acceptance Level rating system.

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### 2.1.2 Acceptance Level

**0 No Effect** - No detectable change in the material surface..

**1 Excellent** - Slight detectable change in color or gloss but no change in function or life of the surface.

**2 Good** - A clearly discernible change in color or loss but no significant impairment of surface life or function.

**3 Fair** - Objectionable change in appearance due to discoloration or etch, possibly resulting in deterioration of function over an extended period of time.

Results will vary from manufacturer to manufacturer due to differences in composition and finish formulations and applications processes. Laboratory grade surface finishes shall result in no more than four (4) Level 3 conditions. Individual test results, for the specified 49 reagents, will be verified with the established third party, independent SEFA 3 test submittal form. Suitability for a given application is dependent upon the chemicals used in a given laboratory.

### **TEST RESULTS:**

<b>Chemical Reagent</b>	<b>Method</b>	<b>Result</b>
1 Acetate, Amyl	A	1
2 Acetate, Ethyl	A	0
3 Acetic Acid, 98%	B	0
4 Acetone	A	1
5 Acid Dichromate, 5%	B	2
6 Alcohol, Butyl	A	0
7 Alcohol, Ethyl	A	0
8 Alcohol, Methyl	A	0
9 Ammonium Hydroxide, 28%	B	0
10 Benzene	A	0
11 Carbon Tetrachloride	A	0
12 Chloroform	A	1
13 Chromic Acid, 60%	B	3
14 Cresol	A	1
15 Dichloroacetic Acid	A	1
16 Dimethylformamide	A	1
17 Dioxane	A	1
18 Ethyl Ether	A	1
19 Formaldehyde, 37%	A	0
20 Formic Acid, 90%	B	1
21 Furfural	A	1
22 Gasoline	A	0
23 Hydrofluoric Acid, 37%	B	2
24 Hydrofluoric Acid, 48%	B	2
25 Hydrogen Peroxide, 30%	B	0

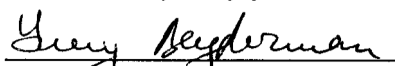
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### TEST RESULTS (Contt'd):

<b>Chemical Reagent</b>	<b>Method</b>	<b>Result</b>
26 Iodine, Tincture of	B	0
27 Methyl Ethyl Ketone	A	1
28 Methylene Chloride	A	3
29 Monochlorobenzene	A	0
30 Naphthalene	A	0
31 Nitric Acid, 20%	B	0
32 Nitric Acid, 30%	B	0
33 Nitric Acid, 70%	B	1
34 Phenol, 90%	A	1
35 Phosphoric Acid, 85%	B	0
36 Silver Nitrate, Saturated	B	0
37 Sodium Hydroxide, 10%	B	0
38 Sodium Hydroxide, 20%	B	0
39 Sodium Hydroxide, 40%	B	0
40 Sodium Hydroxide, Flake	B	0
41 Sodium Sulfide, Saturated	B	0
42 Sulfuric Acid, 33%	B	0
43 Sulfuric Acid, 77%	B	0
44 Sulfuric Acid, 96%	B	0
45 Sulfuric Acid, 77% & Nitric Acid 70%	B	1
46 Toluene	A	1
47 Trichloroethylene	A	1
48 Xylene	A	1
49 Zinc Chloride, Saturated	B	0

The test panel shall be returned to Kewanee Scientific. Please contact me if you have any questions regarding the information provided.

Very truly yours

  
Yuri Beyderman

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### **GENERAL STATEMENT COVERING THIS REPORT:**

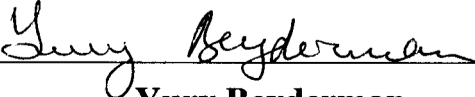
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**Gaynes Labs, Inc.**

  
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**Yury Beyderman**