

Universal Laboratory, Inc.

(972) 272-7337
Fax (972) 272-7790

1726 Commerce St
Garland, Texas 75040-6710

TEST REPORT

Date: 5-04-06

Test No.: 34366-A
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For: Kewaunee Scientific Corporation
2700 W. Front Street
Statesville, NC 28677

Requested By:
David Foote

Background: Kewaunee submitted (2) White Neutral Painted Steel Panel samples for testing to SEFA, paragraphs 8.1, 8.2, 8.3, and 8.5. Samples received from customer supplied carrier on 4-18-06 in good condition. The following information is being provided.

Order Entry Log Date: 4-18-06 Log # 333190
(2) White Neutral Painted Steel Panels

Test Methods: SEFA 8/1998 Paragraph 8.1 Chemical Spot Test on 12 x 12 Samples
SEFA 8/1998 Paragraph 8.2 Hot Water Test on 3 x 5 Sample
SEFA 8/1998 Paragraph 8.3 Impact Test On 3 x 5 Sample
SEFA 8/1998 Paragraph 8.4 Paint Adhesion on Steel
SEFA 8/1998 Paragraph 8.5 Paint Hardness on Steel

Procedure: Chemical Spot Check Test SEFA 8.1-1998, Method A & B
Test Method A: Volatile chemicals tested by placing a saturated cotton ball with the reagent in the mouth of a 1-oz. bottle and inverting the bottle on the surface of the panel.
Test Method B: Five drops of non-volatile chemicals of each reagent placed on sample, covered with watch glass, convex side down. Each Chemical was left for one hour, then washed off with water, cleaned with detergent and naphtha and rinsed with deionized water, dried and evaluated after 24 hours at $73 \pm 3^{\circ}\text{F}$ and $50 \pm 5\%$ relative humidity.

RATING SCALE: Level 0 - No Detectable Change
Level 1 - Slight Change in Color or Gloss
Level 2 - Slight Surface Etching or Severe Staining
Level 3 - Pitting, Cratering, Swelling, Erosion of Coating.
Obvious & Significant Deterioration.

Test Results: The test results are provided in the attached data report

Note: "We certify that all portions of each test performed were under continuous, direct supervision of this Laboratory."

CONCLUSION: The White Neutral Painted Steel Panels Meet The SEFA 8 Standards Requirements Per Paragraphs Tested In This Report.


Charles Stanley, Director

Universal Laboratory, Inc.

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Test Results: SAMPLE ID: White Neutral Painted Steel Panel

Chemical Spot Tests:

<u>#</u>	<u>CHEMICALS</u>	<u>Test Method</u>	<u>Time In Minutes</u>	<u>Rating Scale</u>
1	Amyl Acetate	A	60	Level 1
2	Ethyl Acetate	A	60	Level 1
3	Acetic Acid 98%	B	60	Level 1
4	Acetone	A	60	Level 1
5	Acid Dichromate 5%	B	60	Level 0
6	Butyl Alcohol	A	60	Level 1
7	Ethyl Alcohol	A	60	Level 0
8	Methyl Alcohol	A	60	Level 0
9	Ammonium Hydroxide, 28%	B	60	Level 0
10	Benzene	A	60	Level 1
11	Carbon Tetrachloride	A	60	Level 0
12	Chloroform	A	60	Level 1
13	Chromic Acid 60%	B	60	Level 0
14	Cresol	A	60	Level 0
15	Dichlor Acetic Acid	A	60	Level 0
16	Dimethylformamide	A	60	Level 0
17	Dioxane	A	60	Level 1
18	Ethyl Ether	A	60	Level 0
19	Formaldehyde 37%	A	60	Level 0
20	Formic Acid 90%	B	60	Level 0
21	Furfural	A	60	Level 0
22	Gasoline	A	60	Level 0
23	Hydrochloric Acid, 37%	B	60	Level 0
24	Hydrofluoric Acid 48%	B	60	Level 1
25	Hydrogen Peroxide 28%	B	60	Level 0
26	Tincture of Iodine	B	60	Level 1
27	Methyl Ethyl Ketone	A	60	Level 0
28	Methylene Chloride	A	60	Level 1
29	Mono Chlorobenzene	A	60	Level 1
30	Napthalene	A	60	Level 0
31	Nitric Acid, 20%	B	60	Level 0
32	Nitric Acid, 30%	B	60	Level 0

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Test Results Continued: Sample ID: White Neutral Painted Steel Panel

<u>#</u>	<u>CHEMICALS</u>	<u>Test Method</u>	<u>Time In Minutes</u>	<u>Rating Scale</u>
33	Nitric Acid, 70%	B	60	Level 2
34	Phenol 90%	A	60	Level 0
35	Phosphoric Acid, 85%	B	60	Level 0
36	Silver Nitrate, Saturated	B	60	Level 0
37	Sodium Hydroxide, 10%	B	60	Level 0
38	Sodium Hydroxide, 20%	B	60	Level 0
39	Sodium Hydroxide, 40%	B	60	Level 1
40	Sodium Hydroxide, Flake	B	60	Level 0
41	Sodium Sulfide, Saturated	B	60	Level 0
42	Sulfuric Acid, 25%	B	60	Level 0
43	Sulfuric Acid, 85%	B	60	Level 0
44	Sulfuric Acid, 96%	B	60	Level 3
45	Sulfuric Acid 85%, and Nitric Acid 70%, equal parts	B	60	Level 2
46	Toluene	A	60	Level 1
47	Trichlorethylene	A	60	Level 1
48	Xylene	A	60	Level 0
49	Zinc Chloride, Saturated	B	60	Level 0

8.2 Hot Water Test: 3" x 5" White Neutral Painted Samples
Hot water at 190° was allowed to trickle (a steady stream) at a rate of 8 ounces per minute on the finished surface at an angle of 45-degrees for a period of five minutes. After the sample was cooled and wiped dry, the finish of the samples was inspected for visible effects from the hot water test. None were found. **COMPLIES**

8.3 Impact Test: 3" x 5" White Neutral Painted Samples
A one-pound 2" diameter ball was dropped from a distance of 12" onto a flat horizontal surface of the panel. Inspection after impact showed no cracks or checks in the finish due to the impact. **COMPLIES**

