



SEFA 8.0 CABINET SURFACE FINISH TESTS

Performed for: Jamestown Metal Products
178 Blackstone Avenue
Jamestown, NY 14701

Item Tested: Painted Metal Panel, 2" x 2" Coupons and 12" x 24" Panel

Reference: Scientific Equipment & Furniture Association (SEFA)
Laboratory Furniture Casework, Shelving and Tables Recommended Practices
SEFA 8 M-2010

Section 10.0 Cabinet Surface Finish Tests

Results:

8.1 Chemical Spot Test
See detailed results on attached form.

Four Level 3 conditions permitted Rating: Pass Fail

There are two (2) Level 3 conditions evident

8.2 Hot Water Test Rating: Pass Fail

There is no effect due to the hot water (925 ml @ 94°-92° C for 5 min.)

8.3 Impact Test Rating: Pass Fail

There are no checks or cracks evident due to impact

8.4 Paint Adhesion on Steel Rating Pass Fail

100% of the grid areas remain intact upon completion of the test.

8.5 Paint Hardness on Steel Rating: Pass Fail

The paint finish did withstand the abrasion of a 4H pencil in attempting to penetrate through to the substrate

Tests performed by Dr. Neil M. Ball Title: Environmental Analyst

Neil M. Ball Ph.D. 9-7-11
Signature Date

State of Wisconsin
County of Sheboygan

This document was signed before me on 9/7/11



Jennifer Benzel Notary Public Expires 4-21-2013



CHEMICAL RESISTANCE TESTING – 8.1



SEFA 8 M-2010

Date of Test: 9-1-11	Sample Description: Painted Metal Panel, 2" x 2" Coupons	Type of Material Coated: CRS, 18 GA	Coating Type: Epoxy Powder
<p>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.</p>			

#	Chemical	Rating	Comments
1	Amyl Acetate	0	
2	Ethyl Acetate	0	
3	Acetic Acid 98%	1	There is a slight change in gloss
4	Acetone	0	
5	Acid Dichromate 5%	0	
6	Butyl Alcohol	0	
7	Ethyl Alcohol	0	
8	Methyl Alcohol	0	
9	Ammonium Hydroxide 28%	0	
10	Benzene	0	
11	Carbon Tetrachloride	0	
12	Chloroform	0	
13	Chromic Acid 60%	2	There is slight surface etching
14	Cresol	1	There is a slight change in gloss
15	Dichloroacetic Acid	2	There is slight surface etching
16	Dimethyl Formamide	1	There is a slight change in gloss
17	Dioxane	1	There is a slight change in gloss
18	Ethyl Ether	0	
19	Formaldehyde 37%	0	
20	Formic Acid 90%	3	There is severe swelling/bubbling of the surface
21	Furfural	2	There is severe staining (brown) of the finish
22	Gasoline	0	
23	Hydrochloric Acid 37%	0	
24	Hydrofluoric Acid 48%	1	There is a slight change in color
25	Hydrogen Peroxide 30%	0	
26	Tincture of Iodine	2	There is severe staining (yellow) of the finish

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 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.

#	Chemical	Rating	Comments
27	Methyl Ethyl Ketone	1	There is a slight change in gloss
28	Methylene Chloride	1	There is a slight change in gloss
29	Monochlorobenzene	0	
30	VM&P Naphtha	0	
31	Nitric Acid 20%	1	There is a slight change in color (pale yellow)
32	Nitric Acid 30%	1	There is a slight change in color (pale yellow)
33	Nitric Acid 70%	3	There is swelling of the finish and a severe stain
34	Phenol 90%	0	
35	Phosphoric Acid 85%	0	
36	Silver Nitrate, Saturated	1	There is a slight change in color (grey)
37	Sodium Hydroxide 10%	0	
38	Sodium Hydroxide 20%	0	
39	Sodium Hydroxide 40%	0	
40	Sodium Hydroxide, Flake	0	
41	Sodium Sulfide, Saturated	0	
42	Sulfuric Acid 33%	0	
43	Sulfuric Acid 77%	0	
44	Sulfuric Acid 96%	0	
45	Sulfuric Acid 77% and Nitric Acid 70%, equal parts	2	There is a severe staining (yellow/red) of the finish
46	Toluene	0	
47	Trichloroethylene	0	
48	Xylene	0	
49	Zinc Chloride, Saturated	0	

Test Performed By: Dr. Neil M. Ball

Date: