

# CHEMICAL RESISTANCE TESTING – 8.1



SEFA 8 M-1999

Date of Test: 3/25/09	Sample Description: Metal Panel	Type of Material Coated:	Coating Type:
--------------------------	------------------------------------	--------------------------	---------------

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.

#	Chemical	Rating	Comments
1	Amyl Acetate	0	
2	Ethyl Acetate	0	
3	Acetic Acid 98%	1	Slight change in gloss
4	Acetone	1	Slight change in gloss
5	Acid Dichromate 5%	0	
6	Butyl Alcohol	0	
7	Ethyl Alcohol	0	
8	Methyl Alcohol	0	
9	Ammonia Hydroxide 28%	0	
10	Benzene	0	
11	Carbon Tetrachloride	0	
12	Chloroform	1	Slight change in gloss
13	Chromic Acid 60%	1	Slight change in gloss
14	Cresol	1	Slight change in color – yellow stain
15	Dichlor Acetic Acid	3	Swelling of coating – significant deterioration
16	Dimethylformamide	1	Slight change in gloss
17	Dioxane	1	Slight change in gloss
18	Ethyl Ether	0	
19	Formaldehyde 37%	0	
20	Formic Acid 90%	3	Severe swelling of coating
21	Furfural	2	Severe staining – yellow stain
22	Gasoline	0	
23	Hydrochloric Acid 37%	0	
24	Hydrofluoric Acid 48%	3	Severe swelling of coating
25	Hydrogen Peroxide 28%	0	
26	Tincture of Iodine	2	Severe staining – yellow stain

# CHEMICAL RESISTANCE TESTING – 8.1



SEFA 8 M-1999

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.

#	Chemical	Rating	Comments
27	Methyl Ethyl Ketone	1	Slight change in gloss
28	Methylene Chloride	1	Slight change in gloss
29	Mono Chlorobenzene	0	
30	VM&P	0	
31	Nitric Acid 20%	1	Slight change in gloss
32	Nitric Acid 30%	1	Slight change in color – yellow stain
33	Nitric Acid 70%	2	Slight staining –yellow/red stain
34	Phenol 90%	1	Slight change in gloss
35	Phosphoric Acid 85%	0	
36	Silver Nitrate, Saturated	0	
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 25%	0	
43	Sulfuric Acid 85%	0	
44	Sulfuric Acid 96%	3	Erosion of coating – obvious deterioration
45	Sulfuric Acid 85% and Nitric Acid 70%, equal parts	2	Severe staining – yellow/red stain
46	Toluene	0	
47	Trichlorethylene	0	
48	Xylene	0	
49	Zinc Chloride, Saturated	0	

Test Performed By: Neil M. Ball Date: 3/25/2009