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WILSONART INTERNATIONAL, INC.
Date: June 21, 2014
P.O. No.: JS

Test Report For:

WILSONART INTERNATIONAL, INC.

Specimen ID 26879-2

Chemical Resistant-EB Solid Phenolic Compact by Durcon

SEFA 3-2010, 2.1 Chemical/Stain Resistances

Gary Liu
Project Manager

Tom Pearson
Reviewer

Attention: John Snow
WILSONART INTERNATIONAL, INC.
2400 Wilson Place (PO Box 6110)
Temple, TX 76503-6110
Phone: 254-207-2371
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DATE RECEIVED: 05/12/14
DATES TESTED: 05/27/14 - 05/28/14

DESCRIPTION OF SAMPLES:

Specimen ID:	26879-2
Part Description:	Chemical Resistant-EB Solid Phenolic Compact by Durcon
Material Submitted:	24” x 24” Laminated Black Section
Material Specification:	SEFA 3-2010
Condition of Test Sample:	Production

WORK REQUESTED / APPLICABLE DOCUMENTS:
2.1 Chemical/Stain Resistances: SEFA 3-2010, Section 2.1

CONCLUSIONS:
2.1 Chemical/Stain Resistances: Conforming*

* Suitability for a given application is dependent upon the chemicals used in a given laboratory.

DISPOSITION OF TEST SPECIMENS/ SAMPLES:
Test samples were returned to Wilsonart International, Inc.

2.1 CHEMICAL/STAIN RESISTANCES:

Date Received: 05/12/14
Dates Tested: 05/27/14 - 05/28/14

Description of Samples:

Specimen ID: 26879-2
Part Description: Chemical Resistant-EB Solid Phenolic Compact by Durcon
Material Submitted: 24" x 24" Laminated Black Section
Material Specification: SEFA 3-2010
Condition of Test Sample: Production

Test Procedure:

Test Method: SEFA 3-2010, Sec 2.1
The received sample to be tested for chemical resistance as described herein: Place panel on flat surface, clean with soap (Liqui-Nox at 5% concentration) and water and blot dry. Condition the panel for 48-hours at 73±3℉ (23±2℃) and 50 ± 5% relative humidity. Test the panel for chemical resistance using forty-nine (49) different chemical reagents by the following methods.

Method A: For volatile chemicals – A cotton ball, saturated with the test chemical, was placed in a one ounce bottle (10mm x 7mm test tube or similar container). The container was inverted on the test material surface for a period of 24 hours. Temperature of test: 23° +/- 2℃ (73° +/- 4℉). This method was used for the organic solvents.

Method B: For non-volatile chemicals – Five drops (1/4cc) of the test chemical were placed on the test material surface. The chemical was covered with a watch glass (25mm), convex side down for a period of 24 hours. Temperature of test: 23° +/- 2° C (73° +/- 4℉). This method was used for all chemicals listed below other than solvents.

After 24-hours exposure, exposed areas were washed with water, then a detergent solution detergent (Liqui-Nox at 5% concentration) and finally with isopropyl alcohol. Materials were then rinsed with distilled water and dried with a cloth.

Test Side: Unlabeled side per client instruction

Chemical/Stain Resistances Test Procedure:

Samples are numerically rated as follows:

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 gloss 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.

Number of Samples Tested: One (1) panel

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

Results:

2.1 CHEMICAL/STAIN RESISTANCES				
Volatile Chemicals				
Test No.	**Chemical**	**Method**	**Rating**	**Comments**
1	Acetate, Amyl	A	0	
2	Acetate, Ethyl	A	0	
4	Acetone	A	0	
6	Alcohol, Butyl	A	0	
7	Alcohol, Ethyl	A	0	
8	Alcohol, Methyl	A	0	
10	Benzene	A	0	
11	Carbon Tetrachloride	A	0	
12	Chloroform	A	0	
14	Cresol	A	1	Gloss decrease
15	Dichloroacetic Acid	A	1	Gloss decrease
16	Dimethylformanide	A	0	
17	Dioxane	A	0	
18	Ethyl Ether	A	0	
19	Formaldehyde, 37%	A	0	
21	Furfural	A	0	
22	Gasoline	A	0	
27	Methyl Ethyl Ketone	A	1	Gloss decrease
28	Methylene Chloride	A	0	
29	Monochlorobenzene	A	1	Gloss decrease
30	Naphthalene	A	0	
34	Phenol, 90%	A	1	Gloss decrease
46	Toluene	A	0	
47	Trichloroethylene	A	0	
48	Xylene	A	0	

2.1 CHEMICAL/STAIN RESISTANCES				
Non-volatile Chemicals				
Test No.	**Chemical**	**Method**	**Rating**	**Comments**
3	Acetic Acid, 98%	B	0	
5	Acid Dichromate, 5%	B	1	Gloss decrease
9	Ammonium Hydroxide, 28%	B	1	Gloss decrease
13	Chromic Acid, 60%	B	1	Gloss decrease
20	Formic Acid, 90%	B	1	Gloss decrease
23	Hydrochloric Acid, 37%	B	0	
24	Hydrofluoric Acid, 48%	B	1	Gloss decrease
25	Hydrogen Peroxide, 30%	B	0	
26	Iodine, Tincture of	B	1	Gloss decrease
31	Nitric Acid, 20%	B	0	
32	Nitric Acid, 30%	B	0	
33	Nitric Acid, 70%	B	0	
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%) and Nitric Acid (70%), equal parts	B	0	
49	Zinc Chloride, Saturated	B	0	

2.1 CHEMICAL/STAIN RESISTANCES			
Totals			
Items	**Requirement**	**No. Reagent with 3 Ratings**	**Diposition**
Volatile Subtotal:	-	0	
Non-volatile Subtotal:	-	0	
Grand Totals:	No More than Four Level 3 Conditions	0	Conforming*

* Suitability for a given application is dependent upon the chemicals used in a given laboratory.

2.1 Chemical/Stain Resistances Photographs

Setup, non-volatile chemicals

Setup, volatile chemicals

Overview, non-volatile chemicals

Overview, volatile chemicals