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RUSHIL DÉCOR LIMITED

Report No.: DELH24012549
Date: 16TH SEP, 2024

Test Report For:

RUSHIL DÉCOR LIMITED

SEFA 3-2020 RECOMMENDED TESTING STANDARDS FOR LABORATORY WORK SURFACES

LAMINATED PANELS FOR SEFA 3 TEST

AUTHORIZED BY
FOR INTERTEK INDIA PVT. LTD

SUDHANSHU KUMAR
LAB MANAGER - HL AND TOYS

ATTENTION: DHAVAL KACHHADIYA

APPLICANT: RUSHIL DÉCOR LIMITED
RUSHIL HOUSE, NEAR NEELKANTH GREEN BUNGLOW,
OFF, SINDHU BHAVAN ROAD, SHILAJ, AHMEDABAD, GUJARAT, 380058

DATE RECEIVED: AUG 29, 2024
DATES TESTED: AUG 29, 2024– SEP 16, 2024

DESCRIPTION OF SAMPLES:
SEFA 3-2020 Required Test Units Product Line: Product

Model Number	Description of Sample	Condition of Sample
Not Provided	High pressure laminate	New

WORK REQUESTED/APPLICABLE DOCUMENTS:
To test the submitted samples per the SEFA 3-2020 Laboratory work surfaces for the following tests:

Test No.	Test Description
2.1.1	**CHEMICAL/ STAIN RESISTANCE TEST**

CONCLUSION:
The submitted samples (High pressure laminate panels) met the acceptance criteria of the tests listed above.

2.1.1 SEFA 3 -2020 – CHEMICAL/ STAIN RESISTANCE TEST:

Date Tested:	AUG 29, 2024– SEP 16, 2024
Condition of Test Samples:	New

Description of Samples:

Part Description:	High pressure laminate panels
Material Submitted:	02 pcs
Material Specification:	24” x24” panel
Condition of Test Sample:	Production

Test Procedure:

Test Method:	SEFA 3-2020 Clause 2.1.1 The received sample to be tested for chemical resistance as described herein: Place panel on flat surface. The purpose of the chemical stain resistance test is to evaluate the resistance a finish has to chemical spills. 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°C (73° +/- 4°F). 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) for a period of 24 hours. Temperature of test: 23° +/- 2°C (73° +/- 4°F). This method was used for all chemicals listed below other than solvents. For both of the above methods, leave the reagents on the panel for a period of one hour. Wash off the panel with water, clean with detergent (Liqui-Nox at 5% concentration) and finally with isopropyl alcohol, and rinse with deionized water. Dry with a towel and evaluate after 24 hours at 73±3°F (23±2°C) and 50 ± 5% relative humidity using the following rating system.
Rating Scale:	Level 0 - No Effect - No detectable change in the material surface. Level 1 - Excellent – Slight detectable change in color or gloss but no change in function or life of the surface. Level 2 - Good – A clearly discernible change in color or gloss but no significant impairment of surface life or function. Level 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:	Two (2)

Acceptance Criteria:
The Range of Results is provided to establish the acceptance range for Laboratory Grade Finish. Results will vary from manufacturer to manufacturer. Laboratory Grade finishes should result in no more than four Level 3 conditions. Suitability for a given application is dependent upon the chemicals used in a given laboratory.

Results:

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

Non-volatile Chemicals				
Test No.	**Chemical (% by Vol.)**	**Method**	**Rating**	**Comments**
3	Acetic Acid, 98%	B	0	No Effect
5	Acid Dichromate, 5%	B	0	No Effect
9	Ammonium Hydroxide, 28%	B	0	No Effect
13	Chromic Acid, 60%	B	0	No Effect
20	Formic Acid, 90%	B	0	No Effect
23	Hydrochloric Acid, 37%	B	0	No Effect
24	Hydrofluoric Acid, 48%	B	0	No Effect
25	Hydrogen Peroxide, 30%	B	0	No Effect
26	Iodine, Tincture of	B	0	No Effect
31	Nitric Acid, 20%	B	0	No Effect
32	Nitric Acid, 30%	B	0	No Effect
33	Nitric Acid, 70%	B	0	No Effect
35	Phosphoric Acid, 85%	B	0	No Effect
36	Silver Nitrate, Saturated	B	0	No Effect
37	Sodium Hydroxide, 10%	B	0	No Effect
38	Sodium Hydroxide, 20%	B	0	No Effect
39	Sodium Hydroxide, 40%	B	0	No Effect
40	Sodium Hydroxide, Flake	B	0	No Effect
41	Sodium Sulfide, Saturated	B	0	No Effect
42	Sulfuric Acid, 33%	B	0	No Effect
43	Sulfuric Acid, 77%	B	0	No Effect
44	Sulfuric Acid, 96%	B	0	No Effect
45	Sulfuric Acid, 77% and Nitric Acid 70%, equal parts	B	0	No Effect
49	Zinc Chloride, Saturated	B	0	No Effect

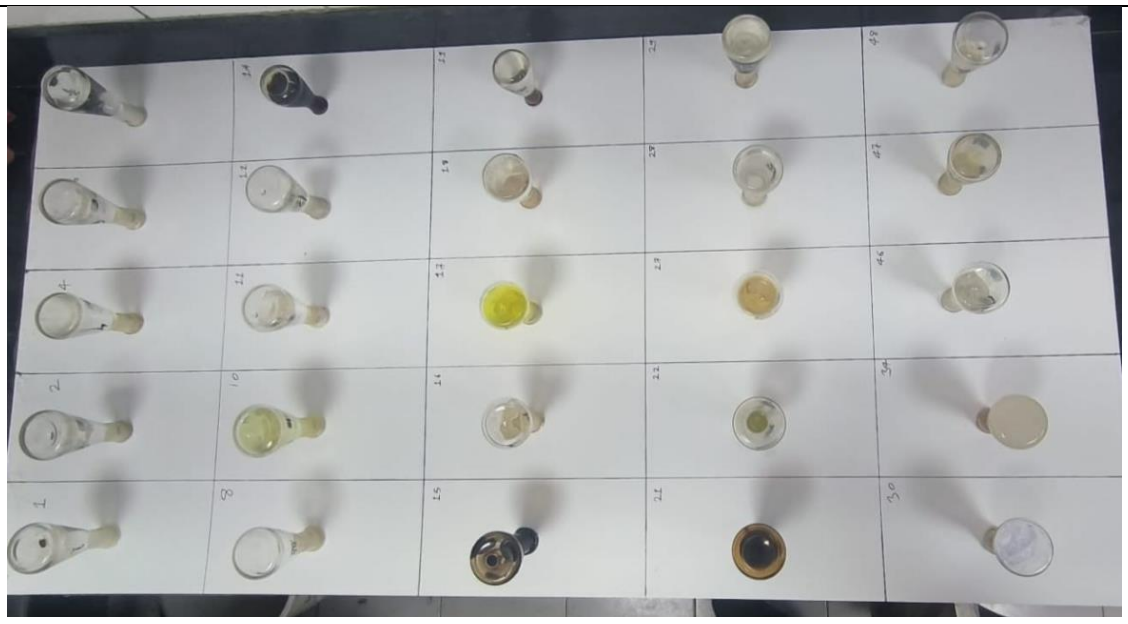
Totals			
Items	**Requirement**	**No. Reagent with 3 Ratings**	**Results**
Volatile Subtotal	No more than four Level 3 conditions.	0	Conforming
Non-volatile Subtotal		0	Conforming
Grand Totals		0	Conforming

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

Results:
The submitted sample conformed to the acceptance criteria for the test described above. Refer to the following photographs.

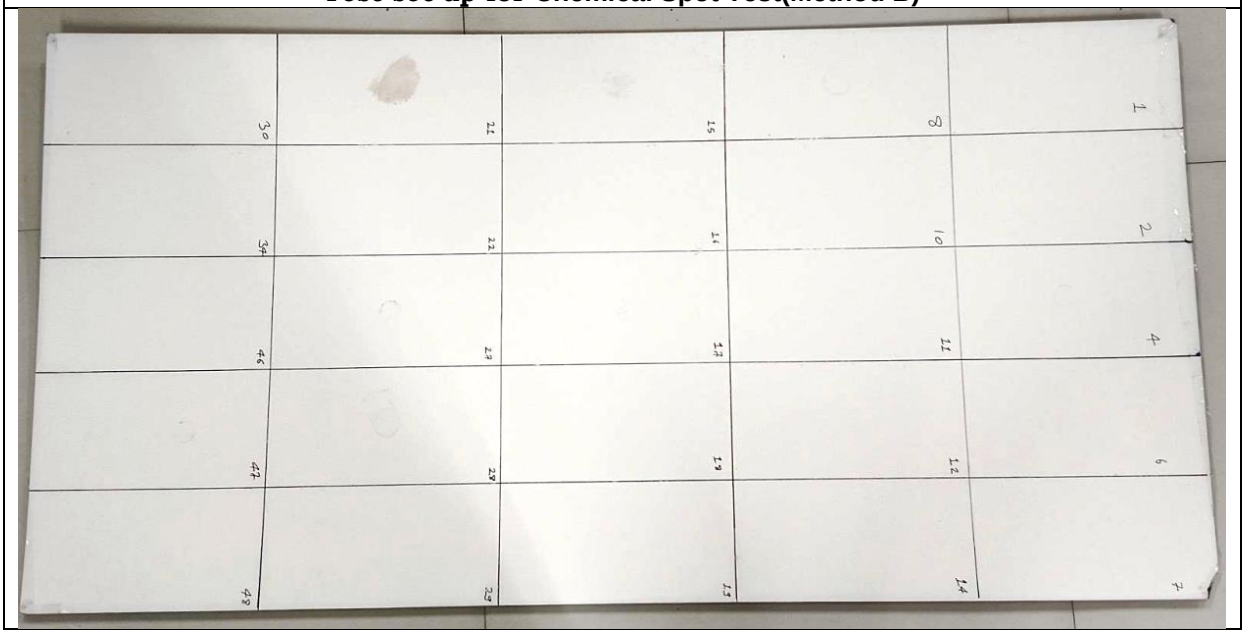
Before Chemical Spot Test with Method "A"

Before Chemical Spot Test with Method “B”



Test set up for Chemical Spot Test (Method A)

Test set up for Chemical Spot Test(Method B)



After test for Chemical Spot Test with Method "A"

After test for Chemical Spot Test with Method "B"

****END OF THE REPORT******