

ABET LAMINATI TEST REPORT

SCOPE OF WORK

SEFA 8- SURFACE FINISH, SECTION 8.1 CHEMICAL SPOT TEST AND SECTION 8.2 HOT WATER TEST EVALUATIONS OF LABGRADE 406 SEI AND LABGRADE 421 SEI WORK SURFACES

REPORT NUMBER

N3942.01-106-31 R0

TEST DATES

02/22/22 - 03/28/22

ISSUE DATE

04/12/22

RECORD RETENTION END DATE

03/28/26

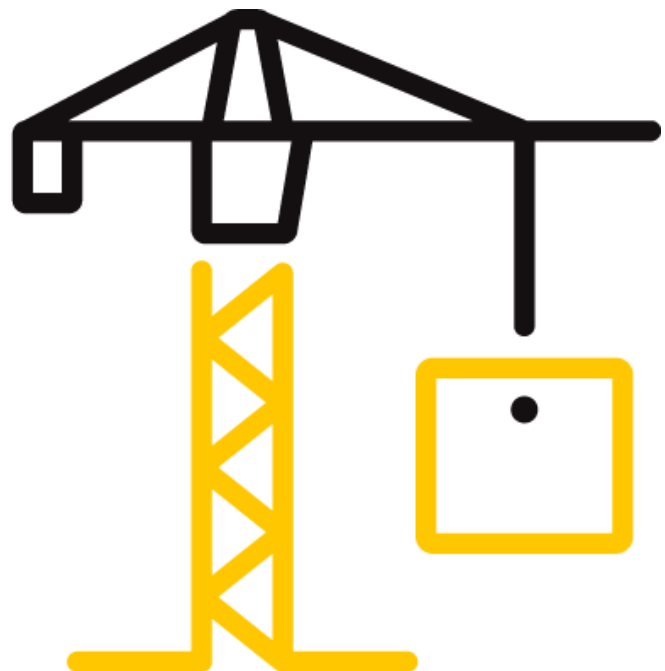
PAGES

16

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2827 (09/09/21)

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TEST REPORT FOR ABET LAMINATI

Report No.: N3942.01-106-31 R0

Date: 04/12/22

REPORT ISSUED TO

ABET LAMINATI

60 West Sheffield Ave.

Englewood, New Jersey 07631

SECTION 1

SCOPE

Products: Labgrade 406 SEI (White) and Labgrade 421 SEI (Black) Work Surfaces

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by ABET LAMINATI to evaluate Labgrade 406 SEI and Labgrade 421 SEI Work Surfaces in accordance with SEFA 8 - Laboratory Grade Casework. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

COMPLETED BY:	Christopher P. Shumaker	REVIEWED BY:	Joseph M. Brickner
TITLE:	Technician I Material Laboratory	TITLE:	Laboratory Supervisor Materials Laboratory
SIGNATURE:		SIGNATURE:	
DATE:	04/12/22	DATE:	04/12/22

CPS:jmb/alts

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SECTION 2

TEST METHOD

The specimens were evaluated in accordance with the following:

SEFA 8 -1999, Recommended Practices For Laboratory Grade Casework, Section 8

SECTION 3

MATERIAL SOURCE

The materials were provided by ABET LAMINATI. The following were received in good condition on 02/21/22:

- One 51" x 120" x 1/2" Labgrade 406 SEI White sheet
- One 51" x 120" x 1/2" Labgrade 421 SEI Black sheet

Refer to the product description photos in Section 9. The materials were tested as received, except for preparing test specimens from the original materials. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Christopher P. Shumaker	Intertek B&C
Joseph M. Brickner	Intertek B&C

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TEST PROCEDURES

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 9. Calibration certificates are available upon request.

SEFA 8 - Chemical Spot Test, Section 8.1

Specimens were evaluated for chemical resistance to various reagents according to one of the following exposure methods:

Method A - Saturated cotton ball in an inverted test tube, 1 hour contact with surface.

Method B - 5 drops covered with a watch glass, 1 hour contact with surface.

After each exposure, specimens were washed with water and detergent (and naphtha, if needed), then dried with a cloth prior to rating each for surface effect after a 24 hour recovery period.

SEFA 8 - Hot Water Test, Section 8.2

Specimens were subjected to a steady stream of hot water at a rate of not 6 ounces a minute for a duration of five minutes while being oriented at a 45° angle. Specimens were observed for visible effects after cooling and wiping dry

SECTION 6

TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
SEFA 8 Section 8.1 Chemical Spot Test	1 each reagent	3" x 3"	Labgrade 406 SEI (White) and
SEFA 8 Section 8.2 Hot Water Test	1	8" x 8"	Labgrade 421 SEI (Black) Work Surface

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TEST RESULTS

SEFA 8 - Chemical Spot Test, Section 8.1

Labgrade 406 SEI Work Surface

CHEMICAL NO.	CHEMICAL NAME	EXPOSURE METHOD	RATING	OBSERVATION
1	Amyl Acetate	A	0	No Effect when washed with soap and water
2	Ethyl Acetate	A	0	
3	98% Acetic Acid	B	0	
4	Acetone	A	0	
5	5% Acid Dichromate	B	n/a	
6	Butyl Alcohol	A	n/a	
7	Ethyl Alcohol	A	0	No Effect when washed with soap and water
8	Methyl Alcohol	A	0	
9	28% Ammonium Hydroxide	B	0	
10	Benzene	A	0	
11	Carbon Tetrachloride	A	0	
12	Chloroform	A	0	
13	60% Chromic Acid	B	n/a	
14	Cresol	A	0	No Effect when washed with soap and water
15	Dichlor Acetic Acid	A	n/a	
16	Dimethylformamide	A	0	No Effect when washed with soap and water
17	Dioxane	A	0	
18	Ethyl Ether	A	0	
19	37% Formaldehyde	A	0	
20	90% Formic Acid	B	0	
21	Furfural	A	0	
22	Gasoline	A	0	
23	37% HCl	B	0	
24	48% HCl	B	0	
25	30% Hydrogen Peroxide	B	0	
26	Iodine	B	0	
27	MEK	A	0	
28	Methylene Chloride	A	0	
29	Mono Chlorobenzene	A	0	

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Labgrade 406 SEI Work Surface (Continued)

CHEMICAL NO.	CHEMICAL NAME	EXPOSURE METHOD	RATING	OBSERVATION
30	Naphthalene	A	0	No Effect when washed with soap and water
31	20% Nitric Acid	B	0	
32	30% Nitric Acid	B	0	
33	70% Nitric Acid	B	1	Slight gloss loss
34	90% Phenol	A	0	No Effect when washed with soap and water
35	85% Phosphoric Acid	B	0	
36	Silver Nitrate	B	0	
37	10% Sodium Hydroxide	B	n/a	
38	20% Sodium Hydroxide	B	n/a	
39	40% Sodium Hydroxide	B	n/a	
40	Sodium Hydroxide Flake	B	n/a	
41	Sodium Sulfide	B	n/a	
42	33% Sulfuric Acid	B	0	No Effect when washed with soap and water
43	77% Sulfuric Acid	B	2	Gloss lost
44	96% Sulfuric Acid	B	2	Gloss lost
45	1:1 ratio of 77% Sulfuric Acid and 70% Nitric Acid	B	1	Slight gloss loss
46	Toluene	A	0	No Effect when washed with soap and water
47	Trichloroethylene	A	0	
48	Xylene	A	0	
49	Zinc Chloride	B	0	
Requirement			No more than 4, Level 3 Ratings	
Result			Pass	

Exposure Method A - Saturated cotton ball in an inverted test tube, 1 hour contact with surface.

Exposure Method B - 5 drops covered with a watch glass, 1 hour contact with surface.

Chemical reagents marked as n/a were not able to be sourced or prepared by the lab in a liquid solution.

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Labgrade 421 SEI Work Surface

CHEMICAL NO.	CHEMICAL NAME	EXPOSURE METHOD	RATING	OBSERVATION
1	Amyl Acetate	A	0	No Effect when washed with soap and water
2	Ethyl Acetate	A	0	
3	98% Acetic Acid	B	0	
4	Acetone	A	0	
5	5% Acid Dichromate	B	n/a	
6	Butyl Alcohol	A	n/a	
7	Ethyl Alcohol	A	0	No Effect when washed with soap and water
8	Methyl Alcohol	A	0	
9	28% Ammonium Hydroxide	B	0	
10	Benzene	A	0	
11	Carbon Tetrachloride	A	0	
12	Chloroform	A	0	
13	60% Chromic Acid	B	n/a	
14	Cresol	A	0	No Effect when washed with soap and water
15	Dichlor Acetic Acid	A	n/a	
16	Dimethylformamide	A	0	No Effect when washed with soap and water
17	Dioxane	A	0	
18	Ethyl Ether	A	0	
19	37% Formaldehyde	A	0	
20	90% Formic Acid	B	0	
21	Furfural	A	0	
22	Gasoline	A	0	
23	37% HCl	B	1	Slight gloss loss
24	48% HCl	B	1	Slight gloss loss
25	30% Hydrogen Peroxide	B	0	No Effect when washed with soap and water
26	Iodine	B	0	
27	MEK	A	0	
28	Methylene Chloride	A	1	Slight gloss loss
29	Mono Chlorobenzene	A	0	No Effect when washed with soap and water

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Labgrade 421 SEI Work Surface (Continued)

CHEMICAL NO.	CHEMICAL NAME	EXPOSURE METHOD	RATING	OBSERVATION
30	Naphthalene	A	0	No Effect when washed with soap and water
31	20% Nitric Acid	B	1	Slight gloss loss
32	30% Nitric Acid	B	2	Gloss lost and discoloured
33	70% Nitric Acid	B	2	Gloss lost and discoloured
34	90% Phenol	A	0	No Effect when washed with soap and water
35	85% Phosphoric Acid	B	0	
36	Silver Nitrate	B	0	
37	10% Sodium Hydroxide	B	n/a	
38	20% Sodium Hydroxide	B	n/a	
39	40% Sodium Hydroxide	B	n/a	
40	Sodium Hydroxide Flake	B	n/a	
41	Sodium Sulfide	B	n/a	
42	33% Sulfuric Acid	B	0	No Effect when washed with soap and water
43	77% Sulfuric Acid	B	3	Gloss lost and discoloured
44	96% Sulfuric Acid	B	3	Gloss lost and discoloured
45	1:1 ratio of 77% Sulfuric Acid and 70% Nitric Acid	B	2	Gloss lost and discoloured
46	Toluene	A	0	No Effect when washed with soap and water
47	Trichloroethylene	A	0	
48	Xylene	A	0	
49	Zinc Chloride	B	0	
Requirement			No more than 4, Level 3 Ratings	
Result			Pass	

Exposure Method A - Saturated cotton ball in an inverted test tube, 1 hour contact with surface.

Exposure Method B - 5 drops covered with a watch glass, 1 hour contact with surface.

Chemical reagents marked as n/a were not able to be sourced or prepared by the lab in a liquid solution.

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SEFA 8 - Hot Water Test, Section 8.2**Labgrade 406 SEI Work Surface**

SPECIMEN NO.	RATE (oz/min)	DURATION (min)	OBSERVATION
1	6	5	No Visible Effect
Requirement			No Visible Effect
Result			Pass

Labgrade 421 SEI Work Surface

SPECIMEN NO.	RATE (oz/min)	DURATION (min)	OBSERVATION
1	6	5	No Visible Effect
Requirement			No Visible Effect
Result			Pass

SECTION 8**CONCLUSION**

The Labgrade 406 SEI and Labgrade 421 SEI Work Surfaces met the specified performance requirements listed in SEFA 8 for the testing performed in this report.

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SECTION 9 PHOTOGRAPHS

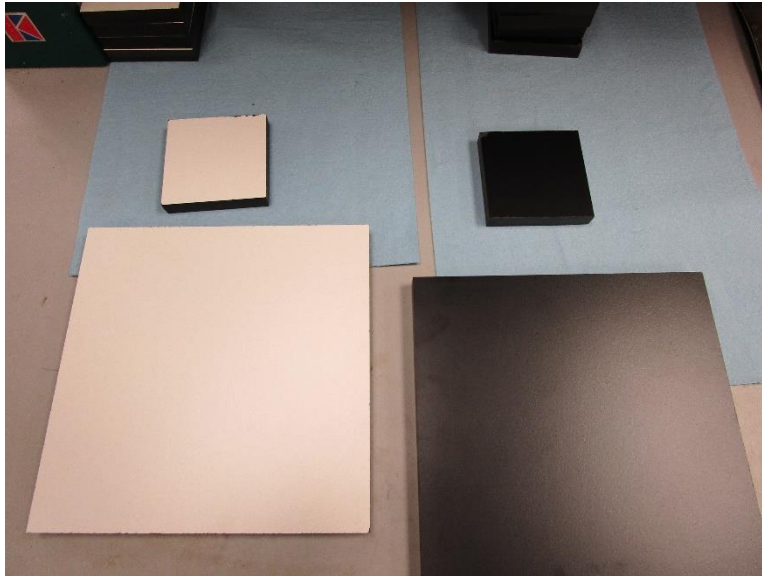


Photo No. 1
Materials Cut to Size



Photo No. 2
Materials Cut to Size

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Photo No. 3
SEFA 8 - Chemical Resistance



Photo No. 4
SEFA 8 - Chemical Resistance

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Photo No. 5
SEFA 8 - Chemical Resistance



Photo No. 6
SEFA 8 - Chemical Resistance

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Photo No. 7
SEFA 8 - Chemical Resistance



Photo No. 8
SEFA 8 - Hot Water Test

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Photo No. 9
SEFA 8 - Hot Water Test



Photo No. 10
SEFA 8 - Hot Water Test

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Photo No. 11

SEFA 8 - Chemical Resistance - All Test Specimens

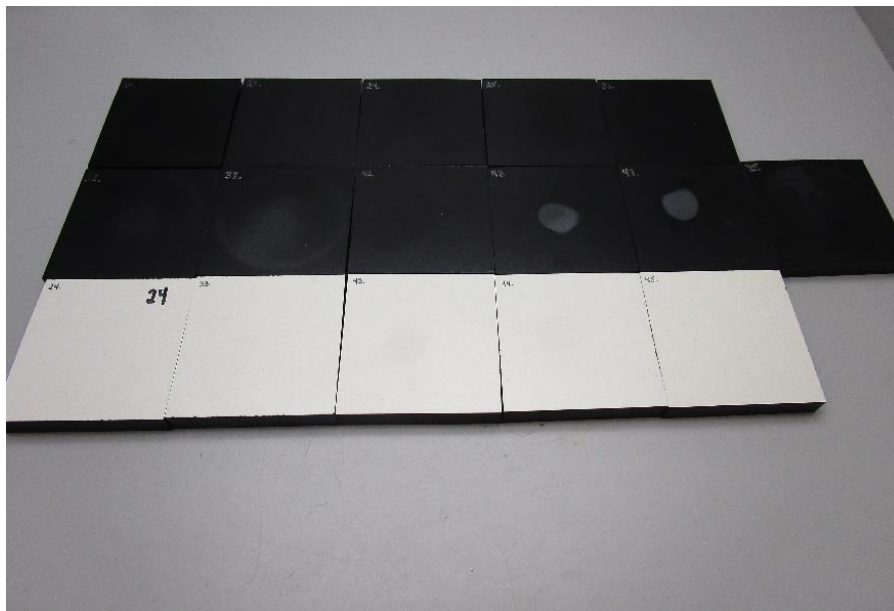


Photo No. 12

SEFA 8 - Chemical Resistance - Detectable Change



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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	04/12/22	N/A	Original Report Issue