

DRYWIRED, LLC

TEST REPORT

SCOPE OF WORK

ASTM D1044 EVALUATION OF LIQUID NANOTINT 2.0

REPORT NUMBER

J0709.07-106-31 R0

TEST DATES

01/21/19 - 05/31/19

ISSUE DATE

07/02/19

RECORD RETENTION END DATE

05/31/23

PAGES

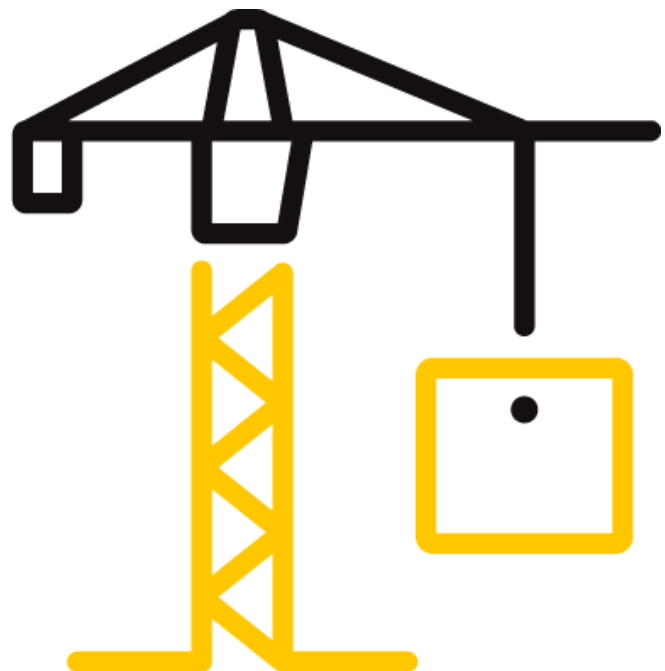
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DOCUMENT CONTROL NUMBER

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RT-R-AMER-Test-2827

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TEST REPORT FOR DRYWIRED, LLC

Report No.: J0709.07-106-31 R0

Date: 07/02/19

REPORT ISSUED TO

DRYWIRED, LLC

9606 S. Santa Monica Boulevard, 4th Floor
Beverly Hills, California 90210

SECTION 1

SCOPE

Product: Liquid NanoTint 2.0 by DryWired, LLC

Intertek Building & Construction (B&C) was contracted by DryWired, LLC, Beverly Hills, California, to evaluate Liquid NanoTint 2.0 in accordance with ASTM D1044. Results obtained are tested values and were secured by using the designated test methods. 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.

For INTERTEK B&C:

COMPLETED BY:	Jonathan Bright
TITLE:	Engineer Materials Laboratory
SIGNATURE:	
DATE:	07/02/19

REVIEWED BY:	Joseph M. Brickner
TITLE:	Laboratory Manager Materials Laboratory
SIGNATURE:	
DATE:	07/02/19

JMB:jmb/kf/als

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SECTION 2

TEST METHODS

The specimens were evaluated in accordance with the following:

ASTM D1044-13, *Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion*

SECTION 3

MATERIAL SOURCE

The materials were provided by DryWired, LLC and identified as Liquid NanoTint 2.0. The following was received: ten 4" square specimens. The material was tested as received. Representative materials 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
Jonathan Bright	Intertek B&C
Joseph M. Brickner	Intertek B&C

SECTION 5

TEST PROCEDURE

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.

ASTM D1044 - Abrasion Resistance

The haze of the plastic was measured utilizing a Gretag MacBeth Color i5 spectrophotometer (ICN: 004725) with CIE standard Illuminant C and diffuse spherical geometry. Three specimens were subjected to 100 cycles on a Taber Model 5130 Abraser (ICN: Y001522) with Calibrase CS-10F wheels, a 500 gram load employed on each wheel, and rotating at 60 cycles per minute. The fine side of a Taber ST-11 resurfacing stone was utilized to reface the wheels for 25 cycles before abrading each specimen.

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SECTION 6

TEST SPECIMEN DESCRIPTIONS

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ASTM D1044	10	4" square	Blue tinted coating on glass substrate

SECTION 7

TEST RESULTS

ASTM D1044 - Abrasion Resistance

SPECIMEN	PRE-ABRADING HAZE (%)	POST-ABRADING HAZE (%)	CHANGE IN HAZE (%)
1-1	0.82	28.70	27.88
1-2	0.39	41.13	40.74
1-3	1.20	29.53	28.33
1-4	0.30	30.46	30.16
Average	0.68	32.46	31.78
2-1	0.72	30.90	30.18
2-2	0.26	33.6	33.34
2-3	1.14	28.45	27.31
2-4	0.69	25.29	24.60
Average	0.70	29.56	28.86
3-1	0.68	34.84	34.16
3-2	0.69	38.51	37.82
3-3	0.55	28.16	27.61
3-4	0.89	44.11	43.22
Average	0.70	36.41	35.70
Overall Average	0.69	32.81	32.11

SECTION 8

CONCLUSION

There were no performance requirements for ASTM D1044 Abrasion Resistance.

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SECTION 9 PHOTOGRAPHS



Photo No. 1
ASTM D1044 Abrasion Resistance Test Setup

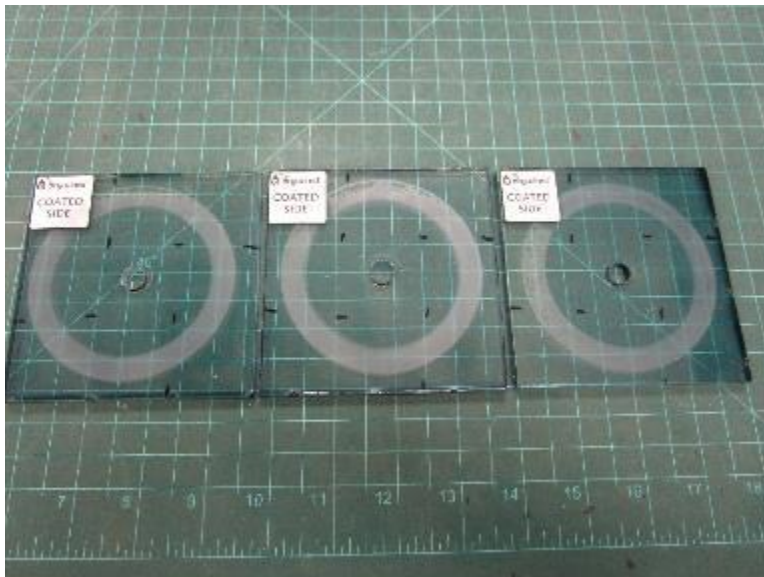


Photo No. 2
ASTM D1044 Specimens Post 100 Cycle Abrasion



Total Quality. Assured.

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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	07/02/19	N/A	Original Report Issue