

COAT ZONE, INC.

TEST REPORT

SCOPE OF WORK

ASTM D3363 - PENCIL HARDNESS EVALUATION OF COILSAFE™ COATING FORMULATION
COATED PANELS BEFORE AND AFTER UV WEATHERING

REPORT NUMBER

L2045.01-106-31 R0

TEST DATES

08/26/20 - 10/16/20

ISSUE DATE

10/28/20

RECORD RETENTION END DATE

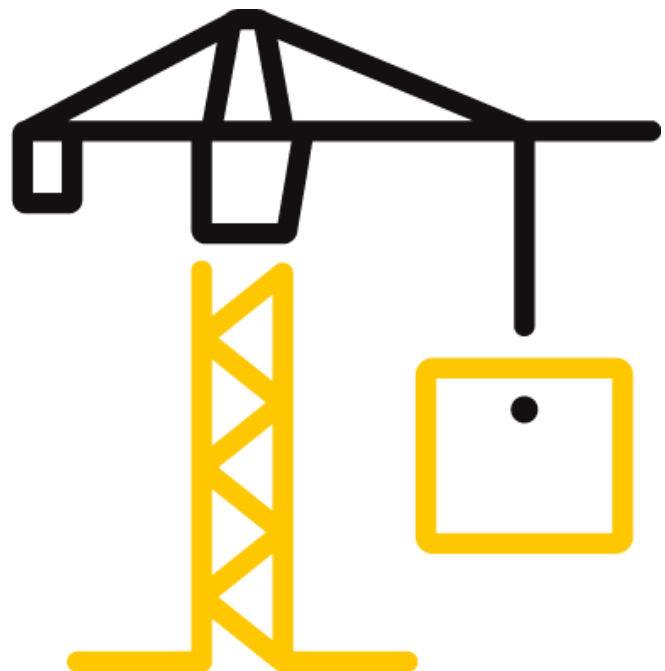
10/16/24

PAGES

8

DOCUMENT CONTROL NUMBER

ATI 00231 (09/05/17)
RT-R-AMER-Test-2827
© 2017 INTERTEK



TEST REPORT FOR COAT ZONE, INC.

Report No.: L2045.01-106-31 R0

Date: 10/28/20

REPORT ISSUED TO

COAT ZONE, INC.

21011 Hegar Road
Hockley, Texas 77447

SECTION 1

SCOPE

Product: CoilSafe™ Coating Formulation

Intertek Building & Construction (B&C) was contracted by Coat Zone™ Company to evaluate CoilSafe™ coating formulation coated metal panels in accordance with ASTM D3363 for Film Hardness after various durations of UVC weathering. CoilSafe™ Coating formulation was exposed to continuous UVC radiation from commercial grade UVC sterilization lamps. 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.

For INTERTEK B&C:

COMPLETED BY:	Isaiah S. Gingrich	REVIEWED BY:	Joseph M. Brickner
TITLE:	Technician I Materials Laboratory	TITLE:	Laboratory Supervisor Materials Laboratory
SIGNATURE:		SIGNATURE:	
DATE:	10/28/20	DATE:	10/28/20

ISG:jmb/als

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

TEST REPORT FOR COAT ZONE, INC.

Report No.: L2045.01-106-31 R0

Date: 10/28/20

SECTION 2

TEST METHOD

The specimens were evaluated in accordance with the following:

ASTM D3363-20, *Standard Test Method for Film Hardness by Pencil Test*

SECTION 3

MATERIAL SOURCE

The materials were provided by Coat Zone, Inc. The following were received in good condition on 7/17/2020: (5) metal panels coated with CoilSafe™ coating formulation. Refer to the product description photos in Section 9. The material was tested as received. 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
Isaiah S. Gingrich	Intertek B&C
Joseph M. Brickner	Intertek B&C

TEST REPORT FOR COAT ZONE, INC.

Report No.: L2045.01-106-31 R0

Date: 10/28/20

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. Calibration certificates available upon request.

ASTM D3363 - Pencil Hardness

Five specimens were evaluated for coating scratch hardness by pushing a pencil lead of known hardness across the coating surface. The leads ranged from 6B (the softest) to 6H (the hardest). The pencil lead point was prepared by passing it over a 400-grit abrasive paper at a 90° angle until smooth. Using a 45° angle guide block, the pencil lead was pushed across the coating surface using enough force to crumble the edge of the lead or cut/scratch through the coating. Each gouge and scratch of the paint was recorded in accordance with the lead.

The specimens were evaluated at various durations after weathering in a UVC Box using a In-Duct (Air Stream) Germicidal UVC Light.

SECTION 6

TEST SPECIMEN DESCRIPTION

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS	VISUAL CHARACTERISTICS
ASTM D3363	Five	3" by 3 "	Silver Coated Metal Coupons

TEST REPORT FOR COAT ZONE, INC.

Report No.: L2045.01-106-31 R0

Date: 10/28/20

SECTION 7

TEST RESULTS

0 Hour UVC Exposure Pencil Hardness

PENCIL HARDNESS	GOUGE (YES OR NO)		SCRATCH (YES OR NO)	
	DETERMINATION 1	DETERMINATION 2	DETERMINATION 1	DETERMINATION 2
	6H	No	No	No

250 Hour UVC Exposure Pencil Hardness

PENCIL HARDNESS	GOUGE (YES OR NO)		SCRATCH (YES OR NO)	
	DETERMINATION 1	DETERMINATION 2	DETERMINATION 1	DETERMINATION 2
	6H	No	No	No

500 Hour UVC Exposure Pencil Hardness

PENCIL HARDNESS	GOUGE (YES OR NO)		SCRATCH (YES OR NO)	
	DETERMINATION 1	DETERMINATION 2	DETERMINATION 1	DETERMINATION 2
	6H	No	No	No

750 Hour UVC Exposure Pencil Hardness

PENCIL HARDNESS	GOUGE (YES OR NO)		SCRATCH (YES OR NO)	
	DETERMINATION 1	DETERMINATION 2	DETERMINATION 1	DETERMINATION 2
	6H	No	No	No

***900 Hour UVC Exposure Pencil Hardness**

PENCIL HARDNESS	GOUGE (YES OR NO)		SCRATCH (YES OR NO)	
	DETERMINATION 1	DETERMINATION 2	DETERMINATION 1	DETERMINATION 2
	6H	No	No	No

Note: Test was terminated at 900 of 1,000 hours, due to failure of the UVC bulb

SECTION 8

CONCLUSION

The requested test method does not contain specific performance requirements. Results are reported as obtained. The CoilSafe™ coating formulation surface integrity remained the same as original throughout the test period.

TEST REPORT FOR COAT ZONE, INC.

Report No.: L2045.01-106-31 R0

Date: 10/28/20

SECTION 9 PHOTOGRAPHS

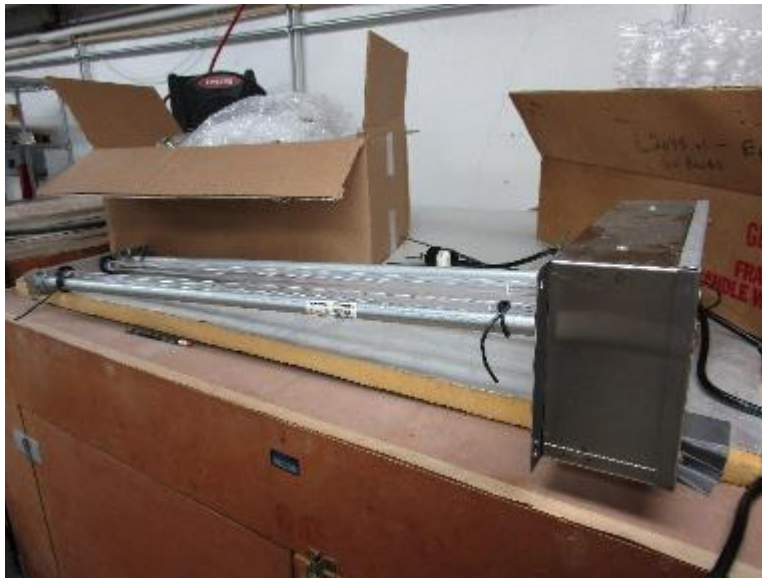


Photo No. 1
UVC Lamp, Pre- Testing



Photo No. 2
UV Box, Testing

TEST REPORT FOR COAT ZONE, INC.

Report No.: L2045.01-106-31 R0

Date: 10/28/20



Photo No. 3

UV Specimens, Post-Testing with Abrasion Marks



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR COAT ZONE, INC.

Report No.: L2045.01-106-31 R0

Date: 10/28/20

SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	10/28/20	N/A	Original Report Issue