

CERTIFIED LABORATORY TEST REPORT

ABRASION - FALLING SAND

TEST PROCEDURES:

FALLING SAND PER

ASTM D 968 METHOD A

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE

80 LITERS / MIL ± 5 LITERS

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Marlene Garrow

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Doto

ALEXANDER J. NICOL State of Florida-Notary Public Commission # GG 240196 My Commission Expires July 19, 2022



Marlene Garrow

Group Leader

FLUROPON®

CERTIFIED LABORATORY TEST REPORT

ACCELERATED WEATHERING QUV-A

TEST PROCEDURES: ACCELERATED WEATHERING 1000 HOURS QUV-A, 340 NM BULB **ASTM D 4587, ASTM G 154 PRODUCT TESTED:** FLUROPON® **TEST RESULTS: ACCEPTABLE FILM INTEGRITY:** NO CRACKING, PEELING, BLISTERING LOSS OF ADHESION OF THE COATING CHALKING: **CHALK RATING OF 8 OR BETTER ASTM D 4214, METHOD A COLOR CHANGE:** NO MORE THAN 2.0 AE HUNTER UNITS PER ASTM D 2244 LOCATION: THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA 05/30/2019



Alexander J. Nicol

Notary Public

Notary Public stamp with expiration date

Date



Marlene Garrow

Group Leader

FLUROPON®

CERTIFIED LABORATORY TEST REPORT

ACCELERATED WEATHERING QUV-A

TEST PROCEDURES: ACCELERATED WEATHERING 2000 HOURS QUV-A, 340 NM BULB **ASTM D 4587, ASTM G 154 PRODUCT TESTED:** FLUROPON® **TEST RESULTS:** ACCEPTABLE **FILM INTEGRITY:** NO CRACKING, PEELING, BLISTERING LOSS OF ADHESION OF THE COATING CHALKING: **CHALK RATING OF 8 OR BETTER ASTM D 4214, METHOD A COLOR CHANGE:** NO MORE THAN 2 AE HUNTER UNITS PER ASTM D 2244 **LOCATION:** THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA 05/30/2019

ALEXANDER J. NICOL
State of Florida-Notary Public
Commission # GG 240196
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Notary Public

Date



Group Leader

FLUROPON®

CERTIFIED LABORATORY TEST REPORT

ACCELERATED WEATHERING QUV-A

		3000 HOURS QUV-A,	340 NM BULB
		FLUROPON®	
		ACCEPTABLE	
		•	•
		NO MORE THAN 2 ∆E PER ASTM D 2244	HUNTER UNITS
05/30/2019 Date	Alexander	J. Ning	<i>5/30/19</i> Date
		05/30/2019 <i>Muse</i>	ACCEPTABLE NO CRACKING, PEELII LOSS OF ADHESION COORDINATION OF 8 COORDIN OF 8 COORDINATION OF 8 COORDINATION OF 8 COORDINATION OF 8 COOR



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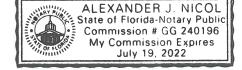
Notary Public



CERTIFIED LABORATORY TEST REPORT

ACCELERATED WEATHERING QUV-A

TEST PROCEDURES:	URES: ACCELERATED WEATHERING 5000 HOURS QUV-A, 340 NM BULB ASTM D 4587, ASTM G 154	
PRODUCT TESTED:	FLUROPON®	
TEST RESULTS:	ACCEPTABLE	
FILM INTEGRITY:	NO CRACKING, PEELING, BLISTERING LOSS OF ADHESION OF THE COATING	
CHALKING:	CHALK RATING OF 6 PER ASTM D 4214, METHOD A	
COLOR CHANGE:	NO MORE THAN 5 ∆E HUNTER UNITS PER ASTM D 2244	
LOCATION:	THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA	
Karlene Larrow 05/30/2019	Sauch S. Ning 5/30/19	
Marlene Garrow Date Group Leader	Alexander J. Nicol Date Notary Public	





CERTIFIED LABORATORY TEST REPORT

ADHESION BY TAPE

TEST PROCEDURES:

ADHESION OF COATING BY TAPE-OFF

ASTM D 3359, METHOD B

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE – NO COATING WAS REMOVED BY 610 SCOTCH TAPE ON

THE TEST AREA

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Karlen Garron

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Date

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FLUROPON® CERTIFIED LABORATORY TEST REPORT

CHEMICAL POLLUTION

PRODUCT TESTED:	FLUROPON®
SUBSTRATE:	HDG, GALVALUME OR ALUMINUM
TEST RESULTS:	10% hydrochloric acid solution -
	24 hour test - no visible changes
	20% hydrochloric acid solution -
	18 hour test – no bleaching
	20% sulfuric acid –
	18 hour test – no bleaching
	25% sodium hydroxide –
	1 hour test – no color change, no blistering
	20% muriatic acid – 15 minute test

LOCATION:

Group Leader

TEST PROCEDURES:

THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA

No significant color change, no blistering

CHEMICAL SPOT TEST PER ASTM D 1308

Marlene Garrow Date

Alexander J. Nicol Notary Public Date

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My Commission Expires
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CERTIFIED LABORATORY TEST REPORT

CORROSION - SALT SPRAY

TEST PROCEDURES:

SALT SPRAY – 1000 HOURS PER

ASTM B 117

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG OR GALVALUME

TEST RESULTS:

ACCEPTABLE CORROSION RATED PER ASTM D 1654

FIELD*

SCRIBE

1/16 INCH (2mm)

RUST (ASTM D 610) 10 *FIELD REFERENCE ASTM D 714

NO BLISTERING

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow Group Leader

Date

Alexander J. Nicol **Notary Public**

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July 19, 2022



CERTIFIED LABORATORY TEST REPORT

CORROSION - SALT SPRAY

TEST PROCEDURES: SALT SPRAY - 2000 HOURS PER **ASTM B 117**

PRODUCT TESTED: FLUROPON®

SUBSTRATE: HDG OR GALVALUME

TEST RESULTS: ACCEPTABLE CORROSION RATED PER ASTM D 1654

FIELD*

SCRIBE 4mm

RUST (ASTM D 610) 10 *FIELD REFERENCE ASTM D 714

NO BLISTERING

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow Group Leader

LOCATION:

Date

Alexander J. Nicol **Notary Public**

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CERTIFIED LABORATORY TEST REPORT

CORROSION - SALT SPRAY

TEST PROCEDURES:

SALT SPRAY - 3000 HOURS PER

ASTM B 117

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

ALUMINUM

TEST RESULTS:

ACCEPTABLE CORROSION RATED PER ASTM D 1654

• FIELD*

10

SCRIBE

1/16 INCH (2mm)

• RUST (ASTM D 610) 10 *FIELD REFERENCE ASTM D 714

NO BLISTERING

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Karlene Harrow

Marlene Garrow

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Date

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CERTIFIED LABORATORY TEST REPORT

CYCLIC SALT FOG UV

TEST PROCEDURES:

CYCLIC SALT FOG UV – 6 CYCLES PER

ASTM D 5894 (2016 HOURS)

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE CORROSION

FIELD

SCRIBE

1/32 INCH (1mm)

RUST (ASTM D 610) 10

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow Group Leader

Date

Alexander J. Nicol **Notary Public**





Marlene Garrow

Group Leader

FLUROPON®

CERTIFIED LABORATORY TEST REPORT

EXTERIOR DURABILITY

TEST:	FLORIDA EXTERIOR DURABILITY, PER ASTM G 7
TEST PROCEDURE:	HDG, GALVALUME OR ALUMINUM PANEL PROPERLY COATED AND WEATHERED IN FLORIDA AT 45° FACING SOUTH FOR 20 YEARS
PRODUCT TESTED:	FLUROPON®
COLOR:	NO MORE THAN FIVE (5) ΔE HUNTER UNITS COLOR CHANGE PER ASTM D 2244
CHALK:	RATING NO LESS THAN EIGHT (8) PER ASTM D 4214 METHOD A
LOCATION:	THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA
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Notary Public stamp with expiration date

Alexander J. Nicol

Notary Public

Date



CERTIFIED LABORATORY TEST REPORT

FLEXIBILITY - T-BEND

TEST PROCEDURES:

T-BEND PER

ASTM D 4145

PRODUCT TESTED:

FLUROPON[®]

SUBSTRATE:

HDG, GALVALUME AND ALUMINUM

TEST RESULTS:

T-BEND = 2T

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Marlene Garrow

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Data

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July 19, 2022



CERTIFIED LABORATORY TEST REPORT

FORMABILITY

TEST PROCEDURES:

1/8 INCH (3 MM) MANDREL TEST

180º BEND PER ASTM D 522

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE

(NO LOSS OF ADHESION)

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Marlene Larrow

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Date



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CERTIFIED LABORATORY TEST REPORT

HUMIDITY

TEST PROCEDURES: 2000 HOURS, 100% HUMIDITY

ASTM D 2247

PRODUCT TESTED: FLUROPON®

SUBSTRATE: HDG OR GALVALUME

TEST RESULTS: ACCEPTABLE CORROSION FIELD

> **CUT EDGE** 10 (0 MM)

UNCUT EDGE 10 (0 MM)

ACCEPTABLE BLISTERING PER ASTM D 714

LOCATION: THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow **Group Leader**

Date

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ALEXANDER J. NICOL State of Florida-Notary Public Commission # GG 240196

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CERTIFIED LABORATORY TEST REPORT

HUMIDITY

TEST PROCEDURES: 3000 HOURS, 100% HUMIDITY **ASTM D 2247**

PRODUCT TESTED: FLUROPON®

SUBSTRATE: ALUMINUM

TEST RESULTS: ACCEPTABLE CORROSION FIELD 10

> **CUT EDGE** 10 (0 MM)

UNCUT EDGE 10 (0 MM)

ACCEPTABLE BLISTERING PER ASTM D 714

LOCATION: THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow Group Leader

Date

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CERTIFIED LABORATORY TEST REPORT

HUMIDITY - CLEVELAND CONDENSING

TEST PROCEDURES:

1000 HOURS PER

ASTM D 4585

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE CORROSION

FIELD

CUT EDGE

10 (0 MM)

UNCUT EDGE

10 (0 MM)

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow Group Leader

Date

Alexander J. Nicol

Notary Public

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CERTIFIED LABORATORY TEST REPORT

IMPACT RESISTANCE

TEST PROCEDURES:

REVERSE IMPACT USING 1.5X METAL

THICKNESS IN INCH LBS. (KILOGRAM-METERS) ½ INCH (13MM) BALL INDENTER

(GARDNER IMPACT TESTER) PER

ASTM D 2794

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

ALUMINUM

TEST RESULTS:

ACCEPTABLE

NO CRACKING

NO LOSS OF ADHESION

LOCATION:

THE SHERWIN-WILLIAMS COMPANY FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public

Date

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State of Florida-Notary Public
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July 19, 2022



CERTIFIED LABORATORY TEST REPORT

IMPACT RESISTANCE

TEST PROCEDURES:

REVERSE IMPACT USING 2X METAL THICKNESS IN INCH LBS. (KILOGRAM-METERS) ½ INCH

(13MM) BALL INDENTER

(GARDNER IMPACT TESTER) PER

ASTM D 2794

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG, GALVALUME

TEST RESULTS:

ACCEPTABLE

NO CRACKING

NO LOSS OF ADHESION

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

05/30/2019

Marlene Garrow Group Leader

Date

Álexander J. Nicol Notary Public

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CERTIFIED LABORATORY TEST REPORT

PENCIL HARDNESS

TEST PROCEDURES:

FILM HARDNESS BY PENCIL PER

ASTM D 3363

PRODUCT TESTED:

FLUROPON®

TEST RESULTS:

PENCIL HARDNESS = HB MINIMUM USING EAGLE TURQUOISE PENCILS

DSING LAGEL TORQUOISE PENCIES

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Marlen Garrow

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Date

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CERTIFIED LABORATORY TEST REPORT

SPECULAR GLOSS

TEST PROCEDURES:

GLOSS DETERMINATION PER

ASTM D 523

PRODUCT TESTED:

FLUROPON®

TEST RESULTS:

SPECULAR GLOSS IS 30 ± 5 AT 60° GEOMETRY SPECULAR GLOSS IS 55 ± 5 AT 85° GEOMETRY

HUNTER LAB D48D GLOSSMETER

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Karlene Garrow 05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Date

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July 19, 2022



FLUROPON® CERTIFIED LABORATORY TEST REPORT SURFACE BURNING

TUNNEL TEST

TEST PROCEDURES:

SURFACE BURNING CHARACTERISITS OF

BUILDING MATERIALS - ASTM E 84

PRODUCT TESTED:

FLUROPON®

TEST RESULTS:

RESULTES ARE EXPRESSED AS RATIO WITH

STANDARD MATERIALS:

REINFORCED CEMENT BOARD =0

RED OAK FLOORING = 100

FILM APPEARANCE:

PANEL #1 - COATED ALUMINUM

PANEL #1

FLAME SPREAD INDEX:

5

SMOKE DEVELOPED INDEX:

NATIONAL FIRE PROTECTION ASSOCIATION HAS ADOPTED THE FOLLOWING SURFACE BURING CLASSIFICATION SYSTEM BASED ON TUNNEL TEST FLAME **SPREAD RATIO:**

> **CLASS A - 0-25 CLASS B - 25-75 CLASS C - 75-100**

FLUROPON® SYSTEM RATES CLASS A

LOCATION:

NGC TESTING SERVICE

BUFFALO, NY

05/30/2019

Marlene Garrow Group Leader

Date

Alexander J. Nicol **Notary Public**

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CERTIFIED LABORATORY TEST REPORT

WATER RESISTANCE OF COATINGS USING WATER FOG APPARATUS

TEST	PRC	CED	URES:
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WATER FOG 2000 HOURS

ASTM D 1735

PRODUCT TESTED:

FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE – NO BLISTERING

NO LOSS OF ADHESION

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Karlene Barrow

05/30/2019

Marlene Garrow Group Leader Date

Alexander J. Nicol Notary Public Date

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CERTIFIED LABORATORY TEST REPORT

WEATHEROMETER

TEST PROCEDURES:

2000 HOURS ASTM D 822, ASTM G 152, ASTM G 153 – CARBON ARC WEATHERING

INSTRUMENT

PRODUCT TESTED:

FLUROPON®

TEST RESULTS:

ACCEPTABLE

FILM INTEGRITY:

NO CHECKING, BLISTERING, OR LOSS OF ADHESION

LOCATION:

THE SHERWIN-WILLIAMS COMPANY

FT. MYERS, FLORIDA, USA

Karlene Sarrow 05/30/2019

Marlene Garrow Group Leader

Date

Alexander J. Nicol Notary Public Date

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