

Fluoropon®

Product Specifications

Outstanding performance in the results

Valspar's industry-leading test site in Florida provides conditions that are perfect for natural exposure "real world" testing and laboratory accelerated weathering.

Proper Coating and Substrate Handling

Valspar product disclaimer:

- 1) All substrates must be properly pretreated.
- 2) American Society for Testing and Materials standards are followed in accordance with standard practice.
- 3) Fluoropon is not designed to bridge cracks in the substrate.
- 4) Fluoropon will generally meet the requirements for most post-painted fabrication processes. However, variations in metal quality, thickness or cleaning/pretreatment applications can lead to diminished flexibility.

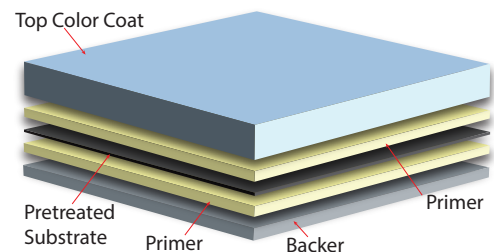
Valspar makes no warranties, express or implied, and disclaims all implied warranties including warranties of merchantability or fitness for a particular use. Valspar will not be liable for any special, incidental or consequential damages.

Know your enemy

Each of the following test results have been performed and verified by Valspar's accredited test facility, unless otherwise specified. Tests and evaluations are performed to appropriate industry association standards by Valspar technical experts.

Test, Test and Test Again

The following certified laboratory test reports have been performed on Valspar's Fluoropon® coating system.



Fluoropon is a two coat PVDF resin system with a total Dry Film Thickness (DFT) of 0.9 to 1.1 mils.

Valspar Coil and Extrusion Coating Division
888-306-2645
coilhelp@valspar.com
valsparcoilextrusion.com

valspar
if it matters, we're on it.®

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FLUROPON[®]

CERTIFIED LABORATORY TEST REPORT

ABRASION - FALLING SAND

TEST PROCEDURES:

FALLING SAND PER
ASTM D 968 METHOD A

PRODUCT TESTED:

VALSPAR FLUROPON[®]

SUBSTRATE:

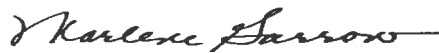
HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE
80 LITERS / MIL \pm 5 LITERS

LOCATION:

THE VALSPAR CORPORATION
FT. MYERS, FLORIDA, USA



04/15/14

Marlene Garrow - Ft. Myers
Valspar Corporation

Date

The VALSPAR CORPORATION certifies these test to be true and accurate and performed by our laboratory.

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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:	VALSPAR 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 ΔE HUNTER UNITS PER ASTM D 2244
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

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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:

VALSPAR 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 ΔE HUNTER UNITS
PER ASTM D 2244

LOCATION:

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CERTIFIED LABORATORY TEST REPORT

ACCELERATED WEATHERING QUV-A

TEST PROCEDURES:	ACCELERATED WEATHERING 3000 HOURS QUV-A, 340 NM BULB ASTM D 4587, ASTM G 154
PRODUCT TESTED:	VALSPAR 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 ΔE HUNTER UNITS PER ASTM D 2244
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

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CERTIFIED LABORATORY TEST REPORT

ACCELERATED WEATHERING QUV-A

TEST PROCEDURES:	ACCELERATED WEATHERING 5000 HOURS QUV-A, 340 NM BULB ASTM D 4587, ASTM G 154
PRODUCT TESTED:	VALSPAR 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 ΔE HUNTER UNITS PER ASTM D 2244
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

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CERTIFIED LABORATORY TEST REPORT

ADHESION BY TAPE

TEST PROCEDURES:

ADHESION OF COATING BY TAPE-OFF
ASTM D 3359, METHOD B

PRODUCT TESTED:

VALSPAR FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE – NO COATING WAS
REMOVED BY 610 SCOTCH TAPE ON
THE TEST AREA

LOCATION:

THE VALSPAR CORPORATION
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FLUROPON[®]
CERTIFIED LABORATORY
TEST REPORT
CHEMICAL POLLUTION

TEST PROCEDURES:

CHEMICAL SPOT TEST PER ASTM D 1308

PRODUCT TESTED:

VALSPAR 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
No significant color change, no blistering

LOCATION:

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FLUROPON®

CERTIFIED LABORATORY TEST REPORT

CORROSION - SALT SPRAY

TEST PROCEDURES:

SALT SPRAY – 1000 HOURS PER
ASTM B 117

PRODUCT TESTED:

VALSPAR FLUROPON®

SUBSTRATE:

HDG OR GALVALUME

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:

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FLUROPON®

CERTIFIED LABORATORY TEST REPORT

CORROSION - SALT SPRAY

TEST PROCEDURES:

SALT SPRAY – 2000 HOURS PER
ASTM B 117

PRODUCT TESTED:

VALSPAR FLUROPON®

SUBSTRATE:

HDG OR GALVALUME

TEST RESULTS:

ACCEPTABLE CORROSION
RATED PER ASTM D 1654

- FIELD* 8
- SCRIBE 4MM
- RUST (ASTM D 610) 10

*FIELD REFERENCE ASTM D 714
NO BLISTERING

LOCATION:

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**CERTIFIED LABORATORY
TEST REPORT**

CORROSION - SALT SPRAY

TEST PROCEDURES:

SALT SPRAY – 3000 HOURS PER
ASTM B 117

PRODUCT TESTED:

VALSPAR 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:

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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:

VALSPAR FLUROPON[®]

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE CORROSION

- FIELD 8
- SCRIBE 1/32 INCH (1MM)
- RUST (ASTM D 610) 10

LOCATION:

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**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:	VALSPAR 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 VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

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CERTIFIED LABORATORY TEST REPORT

FLEXIBILITY - T-BEND

TEST PROCEDURES:

T-BEND PER
ASTM D 4145

PRODUCT TESTED:

VALSPAR FLUROPON®

SUBSTRATE:

HDG, GALVALUME AND ALUMINUM

TEST RESULTS:

T-BEND = 2T

LOCATION:

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FLUROPON[®]

CERTIFIED LABORATORY TEST REPORT

FORMABILITY

TEST PROCEDURES:	1/8 INCH (3 MM) MANDREL TEST 180° BEND PER ASTM D 522
PRODUCT TESTED:	VALSPAR FLUROPON [®]
SUBSTRATE:	HDG, GALVALUME OR ALUMINUM
TEST RESULTS:	ACCEPTABLE (NO LOSS OF ADHESION)
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

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FLUROPON[®]

CERTIFIED LABORATORY TEST REPORT

HUMIDITY

TEST PROCEDURES:

2000 HOURS, 100% HUMIDITY
ASTM D 2247

PRODUCT TESTED:

VALSPAR FLUROPON[®]

SUBSTRATE:

HDG OR GALVALUME

TEST RESULTS:

ACCEPTABLE CORROSION

- FIELD 10
- CUT EDGE 10 (0 MM)
- UNCUT EDGE 10 (0 MM)

ACCEPTABLE BLISTERING PER ASTM D 714

LOCATION:

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

HUMIDITY

TEST PROCEDURES:

3000 HOURS, 100% HUMIDITY
ASTM D 2247

PRODUCT TESTED:

VALSPAR 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:

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**CERTIFIED LABORATORY
TEST REPORT**

**HUMIDITY –
CLEVELAND CONDENSING**

TEST PROCEDURES:

1000 HOURS PER
ASTM D 4585

PRODUCT TESTED:

VALSPAR FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE CORROSION

- FIELD 10
- CUT EDGE 10 (0 MM)
- UNCUT EDGE 10 (0 MM)

LOCATION:

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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:

VALSPAR FLUROPON[®]

SUBSTRATE:

ALUMINUM

TEST RESULTS:

ACCEPTABLE

- NO CRACKING
- NO LOSS OF ADHESION

LOCATION:

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FLUROPON[®]

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:

VALSPAR FLUROPON[®]

SUBSTRATE:

HDG, GALVALUME

TEST RESULTS:

ACCEPTABLE

- NO CRACKING
- NO LOSS OF ADHESION

LOCATION:

THE VALSPAR CORPORATION
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**CERTIFIED LABORATORY
TEST REPORT**

PENCIL HARDNESS

TEST PROCEDURES:

FILM HARDNESS BY PENCIL PER
ASTM D 3363

PRODUCT TESTED:

VALSPAR FLUROPON®

TEST RESULTS:

PENCIL HARDNESS = HB MINIMUM
USING EAGLE TURQUOISE PENCILS

LOCATION:

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**CERTIFIED LABORATORY
TEST REPORT**

SPECULAR GLOSS

TEST PROCEDURES:

**GLOSS DETERMINATION PER
ASTM D 523**

PRODUCT TESTED:

VALSPAR 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 VALSPAR CORPORATION
FT. MYERS, FLORIDA, USA**

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FLUROPON[®]

CERTIFIED LABORATORY TEST REPORT

SURFACE BURNING

TUNNEL TEST

TEST PROCEDURES:

**SURFACE BURNING CHARACTERISTICS OF
BUILDING MATERIALS - ASTM E 84**

PRODUCT TESTED:

VALSPAR FLUROPON[®]

TEST RESULTS:

**RESULTS ARE EXPRESSED AS RATIO WITH
STANDARD MATERIALS: ABESTOSCEMENT=0
RED OAK FLOORING =100**

FIL M APPEARANCE:

**PANEL #1 – COATED ALUMINUM
PANEL #2 – COATED GALVALUME STEEL WITH
RUBBER SEALANT AT THE INTERLOCKING JOINT**

	<u>PANEL #1</u>	<u>PANEL #2</u>
FLAME SPREAD RATIO:	0	0
FUEL CONTRIBUTED FACTOR:	0	0
SMOKE DENSITY FACTOR:	0	0

***RUBBER SEALANT CONTRIBUTES SOME FLAME AND SMOKE (NFPA)
NATIONAL FIRE PROTECTION ASSOCIATION HAS ADOPTED THE FOLLOWING
SURFACE BURNING CLASSIFICATION SYSTEM BASED ON TUNNEL TEST FLAME
SPREAD RATIO:**

- CLASS A – 0-25
- CLASS B – 25-75
- CLASS C – 75-100
- CLASS D – 200-500
- CLASS E – OVER 500
- VALSPAR'S FLUROPON[®] SYSTEM RATES CLASS A**

LOCATION:

**UNITED STATES TESTING COMPANY, INC
FAIRFIELD, NJ**

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**CERTIFIED LABORATORY
TEST REPORT**

**WATER RESISTANCE OF COATINGS
USING WATER FOG APPARATUS**

TEST PROCEDURES:

WATER FOG 2000 HOURS
ASTM D 1735

PRODUCT TESTED:

VALSPAR FLUROPON®

SUBSTRATE:

HDG, GALVALUME OR ALUMINUM

TEST RESULTS:

ACCEPTABLE – NO BLISTERING
NO LOSS OF ADHESION

LOCATION:

THE VALSPAR CORPORATION
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CERTIFIED LABORATORY TEST REPORT

WEATHEROMETER

TEST PROCEDURES:	2000 HOURS PER ASTM D 822, ASTM G 152, ASTM G 153 – CARBON ARC WEATHERING INSTRUMENT
PRODUCT TESTED:	VALSPAR FLUROPON®
TEST RESULTS:	ACCEPTABLE
FILM INTEGRITY:	NO CHECKING, BLISTERING, OR LOSS OF ADHESION
LOCATION:	THE VALSPAR CORPORATION FT. MYERS, FLORIDA, USA

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