

Valspar

FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Accelerated Weathering

Accelerated Weathering

TEST PROCEDURE:	Accelerated Weathering 1000 hours Per ASTM D 3361
PRODUCT TESTED:	Valspar Fluropon ®
TEST RESULTS:	Acceptable
FILM INTEGRITY:	No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal
CHALKING:	Chalk Rating of 8 or better per ASTM D 4214, method A (ASTM D 659)
COLOR CHANGE:	Less than 5 ΔE Hunter units per ASTM D 2244
SAMPLE NUMBER:	432B198
LOCATION:	THE VALSPAR CORPORATION, Kankakee, IL
CERTIFIED BY:	ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

April 13, 2005

My Commission Expires: Date

THE VALSPAR CORPORATION certifies these tests to be true and accurate and performed by our laboratory.

Valspar

FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Accelerated Weathering

Accelerated Weathering

TEST PROCEDURE:	Accelerated Weathering 1000 hours Per ASTM D 4587, Condition B or ASTM G 23, Method 1 or Method 2, Type EH apparatus
PRODUCT TESTED:	Valspar Fluropon ®
TEST RESULTS:	Acceptable
FILM INTEGRITY:	No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal
CHALKING:	Chalk Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659)
COLOR CHANGE:	Less than 5 ΔE Hunter units per ASTM D 2244
SAMPLE NUMBER:	433B442
LOCATION:	THE VALSPAR CORPORATION, Kankakee, IL
CERTIFIED BY:	ATTESTED BY:
_____	_____
A.N. Dunlop Date	Ann E. Landers Date
Vice President Coil & Extrusions	Notary Public
	<u>April 13, 2005</u>
	My Commission Expires: Date

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CERTIFIED LABORATORY TEST REPORT

Accelerated Weathering

Accelerated Weathering

TEST PROCEDURE: Accelerated Weathering 2000 hours per ASTM D 4587, Condition B or ASTM G 23, Method 1 or Method 2, Type EH apparatus

PRODUCT TESTED: Valspar Fluropon ®

TEST RESULTS: Acceptable

FILM INTEGRITY: No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal

CHALKING: Chalk Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659)

COLOR CHANGE: Less than 2 ΔE Hunter units per ASTM D 2244

SAMPLE NUMBER: 435B187

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY: _____
ATTESTED BY: _____

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

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**CERTIFIED LABORATORY
TEST REPORT**

Accelerated Weathering

Accelerated Weathering

TEST PROCEDURE: Accelerated Weathering 3000 hours per ASTM D 4587, Condition B or ASTM G 23, Method 1 or Method 2, Type EH apparatus

PRODUCT TESTED: Valspar Fluropon ®

TEST RESULTS: Acceptable

FILM INTEGRITY: No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal

CHALKING: Chalk Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659)

COLOR CHANGE: Less than 5 ΔE Hunter units per ASTM D 2244

SAMPLE NUMBER: 432B198

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY: **ATTESTED BY:**

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

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**CERTIFIED LABORATORY
TEST REPORT**

Accelerated Weathering

Accelerated Weathering

TEST PROCEDURE: Accelerated Weathering 3000 hours per ASTM D 4587, Condition B or ASTM G 23, Method 1 or Method 2, Type EH apparatus

PRODUCT TESTED: Valspar Fluropon ®

TEST RESULTS: Acceptable

FILM INTEGRITY: No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal

CHALKING: Chalk Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659)

COLOR CHANGE: Less than 5 ΔE Hunter units per ASTM D 2244

SAMPLE NUMBER: 432B198

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY: _____
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Vice President Coil & Extrusions

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**CERTIFIED LABORATORY
TEST REPORT**

Accelerated Weathering

Accelerated Weathering

TEST PROCEDURE: Accelerated Weathering 5000 hours per ASTM D 4587, Condition B or ASTM G 23, Method 1 or Method 2, Type EH apparatus

PRODUCT TESTED: Valspar Fluropon ®

TEST RESULTS: Acceptable

FILM INTEGRITY: No cracking, peeling, blistering, loss of adhesion of the protective coating, or corrosion of the base metal

CHALKING: Chalk Rating of 8 or better per ASTM D 4214, Method A (ASTM D 659)

COLOR CHANGE: Less than 2 ΔE Hunter units per ASTM D 2244

SAMPLE NUMBER: 433B173

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY: **ATTESTED BY:**

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

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**CERTIFIED LABORATORY
TEST REPORT**

Adhesion

Measuring Adhesion by Tape

TEST PROCEDURE:

**Adhesion of coating by tape-off
Per ASTM D 3359, Method B**

PRODUCT TEST:

Valspar Fluropon®

TEST RESULTS:

**No coating was removed by scotch tape
on the tested area**

SAMPLE NUMBER:

432B198

**LOCATION:
Kankakee, IL**

THE VALSPAR CORPORATION,

CERTIFIED BY:

ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

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Valspar**FLUROPON®****CERTIFIED LABORATORY
TEST REPORT****Chemical Spot Test****Acid Resistance****TEST PROCEDURE:****Chemical spot tests per ASTM D
1308, covered spot spot test
procedure 7.2****PRODUCT TESTED:****Valspar Fluropon®****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 color change, no blistering****SAMPLE NUMBER:****431A886****LOCATION:****THE VALSPAR
CORPORATION, Kankakee, IL****CERTIFIED BY:****ATTESTED BY:**

**A.N. Dunlop Date
Vice President Coil & Extrusions**

**Ann E. Landers Date
Notary Public****April 13, 2005
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**CERTIFIED LABORATORY
TEST REPORT**

Cyclic Salt Fog/UV Exposure

Salt Spray

TEST PROCEDURE: 3000 hours per ASTM D 5894
Including Scribe requirement

PRODUCT TESTED: Valspar Fluropon® on Galvanize
Substrate

TESTS RESULTS: Acceptable

SCRIBE: Test Rating of 8, 1/32 inch (1 mm)
creepage from scribe per ASTM D 1654,
procedure A

FIELD: Test Rating of 10, no blistering per ASTM
D 1654 Procedure B (Ref. ASTM D 714)

SAMPLE NUMBER: 433B173

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY:

ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
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**CERTIFIED LABORATORY
TEST REPORT**

Falling Sand

Abrasion Resistance

**TEST PROCEDURE:
ASTM D 968**

**Falling sand abrasion test Per
Method A**

PRODUCT TESTED:

Valspar Fluropon®

TEST RESULTS:

Total Sand = 67 Liters

SAMPLE NUMBER:

431A641

LOCATION:

**THE VALSPAR
CORPORATION, Kankakee, IL**

CERTIFIED BY:

ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Falling Sand

Abrasion Resistance

**TEST PROCEDURE:
ASTM D 968**

**Falling sand abrasion test Per
Method A**

PRODUCT TESTED:

Valspar Fluropon®

TEST RESULTS:

Total Sand = 80 Liters

SAMPLE NUMBER:

**431A641 1.0 Mil
Primer: PMY0154, 0.2Mil**

LOCATION:

**THE VALSPAR CORPORATION,
Kankakee, IL**

CERTIFIED BY:

ATTESTED BY:

**A.N. Dunlop Date
Vice President Coil & Extrusions**

**Ann E. Landers Date
Notary Public**

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**CERTIFIED LABORATORY
TEST REPORT**

Film Hardness

Pencil Hardness

**TEST PROCEDURE:
D3363**

Film harness by pencil test per ASTM

PRODUCT TESTED:

Valspar Fluropon®

TEST RESULTS:

**Pencil hardness (Gouge and Scratch
Hardness) is HB minimum using Eagle
Turquoise pencils.**

SAMPLE NUMBER:

433B365

**LOCATION:
Kankakee, IL**

THE VALSPAR CORPORATION,

CERTIFIED BY:

ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

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Valspar**FLUROPON®****CERTIFIED LABORATORY
TEST REPORT****Gloss****Specular Gloss**

TEST PROCEDURE: Gloss determination per ASTM D523

PRODUCT TESTED: Valspar Fluropon®

TEST RESULTS: Specular gloss was found to be 30 or less on a 60 degree geometry. Hunter Lab D48D glossmeter. (Standardization at 0 and 95.3)

SAMPLE NUMBER: 435A871

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY:**ATTESTED BY:**

A.N. Dunlop **Date**
Vice President Coil & Extrusions

Ann E. Landers **Date**
Notary Public

April 13, 2005
My Commission Expires: Date

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Valspar**FLUROPON®****CERTIFIED LABORATORY
TEST REPORT****Gloss****Specular Gloss**

TEST PROCEDURE: Gloss determination per ASTM D523

PRODUCT TESTED: Valspar Fluropon®

TEST RESULTS: Specular gloss was found to be 32 on a 60 degree geometry. Hunter Lab D48D glossmeter. (Standardization at 0 and 95.3)

SAMPLE NUMBER: 432B161

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY:**ATTESTED BY:**

A.N. Dunlop **Date**
Vice President Coil & Extrusions

Ann E. Landers **Date**
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**CERTIFIED LABORATORY
TEST REPORT**

100% Humidity

Humidity

TEST PROCEDURE: Humidity test run for 2000 hours at 100% humidity at 100°F, per ASTM D 2247. Apparatus A1

PRODUCT TESTED: Valspar Fluropon®

TEST RESULTS: Acceptable

FIELD: Test Rating of 10, no blistering, cracking, creepage or corrosion per ASTM D 1654

SAMPLE NUMBER: 456A354

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY:

ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

100% Humidity

Humidity

TEST PROCEDURE: Humidity test run for 2000 hours at 100% humidity at 100°F, per ASTM D 2247. Apparatus A1

PRODUCT TESTED: Valspar Fluropon® on Hot Dipped Galvanized (G90) Steel Substrate

TEST RESULTS: Acceptable

FIELD: Test Rating of 10, no blistering, cracking, creepage or corrosion per ASTM D 1654

SAMPLE NUMBER: 431A886

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY:

ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
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**CERTIFIED LABORATORY
TEST REPORT**

Impact

Impact Resistance

TEST PROCEDURE:	Reverse and direct impact using 3x metal thickness in inch lbs. (kilogram-meters) and 5/8 inch (16 mm) ball indenter (Gardner Impact Tester), Per ASTM D 2794
PRODUCT TESTED: Substrate	Valspar Fluropon® on Galvalume® Steel
TEST RESULTS:	<p>Reverse impact: No cracking & No loss of adhesion</p> <p>Direct impact: No cracking & No loss of adhesion</p>
SAMPLE NUMBER:	433B173
LOCATION:	THE VALSPAR CORPORATION, Kankakee, IL
CERTIFIED BY:	ATTESTED BY:
<hr/> A.N. Dunlop Date Vice President Coil & Extrusions	<hr/> Ann E. Landers Date Notary Public
	<p><u>April 13, 2005</u> My Commission Expires: Date</p>

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Impact

Impact Resistance

TEST PROCEDURE: Reverse and direct impact using 3x metal thickness in inch lbs. (kilogram-meters) and 5/8 inch (16 mm) ball indenter (Gardner Impact Tester), Per ASTM D 2794

PRODUCT TESTED: Valspar Fluropon® on Hot Dipped Galvanized (G90) Steel Substrate

TEST RESULTS:

Reverse impact:
No cracking & No loss of adhesion

Direct impact:
No cracking & No loss of adhesion

SAMPLE NUMBER: 454A336

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY: _____ **ATTESTED BY:** _____

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public

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Valspar**FLUROPON®****CERTIFIED LABORATORY
TEST REPORT****Mandrel Test****Formability****TEST PROCEDURE:
degree bend****1/8 Inch (3 mm) Mandrel Test- 180****Per ASTM D 522****PRODUCT TESTED:
Substrate****Valspar Fluropon® on Aluminum****TEST RESULTS:****Acceptable****FILM APPEARANCE:****No evidence of cracking, and no loss of
adhesion to the point of metal rupture****SAMPLE NUMBER:****451A340****LOCATION:****THE VALSPAR CORPORATION,
Kankakee, IL****CERTIFIED BY:****ATTESTED BY:**

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
Notary Public**April 13, 2005**
My Commission Expires: Date

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Mandrel Test

Formability

TEST PROCEDURE:
degree bend

1/8 Inch (3 mm) Mandrel Test- 180

Per ASTM D 522

PRODUCT TESTED:
Substrate

Valspar Fluropon® on Galvalume ®

TEST RESULTS:

Acceptable

FILM APPEARANCE:

**No evidence of cracking, and no loss of
adhesion to the point of metal rupture**

SAMPLE NUMBER:

454A336

LOCATION:
Kankakee, IL

THE VALSPAR CORPORATION,

CERTIFIED BY:

ATTESTED BY:

A.N. Dunlop Date
Vice President Coil & Extrusions

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Mandrel Test

Formability

TEST PROCEDURE:
degree bend

1/8 Inch (3 mm) Mandrel Test- 180

Per ASTM D 522

PRODUCT TESTED:

**Valspar Fluropon® on Hot Dipped
Galvanized (G-90) Steel Substrate**

TEST RESULTS:

Acceptable

FILM APPEARANCE:

**No evidence of cracking, and no loss of
adhesion to the point of metal rupture**

SAMPLE NUMBER:

451A340

LOCATION:
Kankakee, IL

THE VALSPAR CORPORATION,

CERTIFIED BY:

ATTESTED BY:

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Vice President Coil & Extrusions

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Valspar**FLUROPON®****CERTIFIED LABORATORY
TEST REPORT****Salt Spray****Salt Spray****TEST PROCEDURE:
including****Salt Spray- 1000 hours per ASTM B 117,
Scribe requirement****PRODUCT TESTED:
Substrate****Valspar Fluropon® on Galvalume®****TEST RESULTS:****Acceptable****SCRIBE:****Test Rating of 7, 1/16 inch (2 mm)
creepage from scribe per ASTM D 1654,
procedure A****FIELD:
D 1654****Test Rating of 10, no blistering per ASTM
Procedure B (Ref. ASTM D 714)****SAMPLE NUMBER:****435A871****LOCATION:
Kankakee, IL****THE VALSPAR CORPORATION,****CERTIFIED BY:****ATTESTED BY:**

**A.N. Dunlop Date
Vice President Coil & Extrusions**

**Ann E. Landers Date
Notary Public****April 13, 2005****My Commission Expires: Date**

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Salt Spray

Salt Spray

TEST PROCEDURE: Salt Spray- 2000 hours per ASTM B 117,
including Scribe requirement

PRODUCT TESTED: Valspar Fluropon® on Galvalume®
Substrate

TEST RESULTS: Acceptable

SCRIBE: Test Rating of 7, 4 mm creepage from
scribe per ASTM D 1654, procedure A

FIELD: Test Rating of 8, per ASTM D 1654
Procedure B

(Ref. ASTM D 714)

SAMPLE NUMBER: 433X515

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

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**FLUROPON®
CERTIFIED LABORATORY
TEST REPORT
Surface Burning**

Tunnel Test**TEST PROCEDURE:**

**Surface Burning Characteristics of
Building Materials Per ASTM E 84**

PRODUCT TESTED:

Valspar Fluropon®

TEST RESULTS:

**Results are expressed as ratio with
standard materials: Abestocement=0
red oak flooring=100**

FILM APPEARANCE:

**Panel #1-Coated Aluminum
Panel #2-Coated galvanized 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 classifications
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 as a Class A

SAMPLE NUMBER:

433X403

LOCATION:

**UNITED STATES TESTING COMPANY, INC.
Fairfield, New Jersey**

CERTIFIED BY:**ATTESTED BY:**

A.N. Dunlop Date
Vice President Coil & Extrusions

Ann E. Landers Date
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April 13, 2005

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Valspar**FLUROPON®****CERTIFIED LABORATORY
TEST REPORT****Wet Adhesion****Measuring Adhesion by Water Immersion**

TEST PROCEDURE: Water Immersion for 1500 hours

PRODUCT TESTED: Valspar Fluropon®

TEST RESULTS: No coating was removed by scotch tape on the tested area

SAMPLE NUMBER: 451A340

LOCATION: THE VALSPAR CORPORATION,
Kankakee, IL

CERTIFIED BY:**ATTESTED BY:**

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Vice President Coil & Extrusions

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