

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.

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**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
Vice President Coil & Extrusions

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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

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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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A.N. Dunlop Date
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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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A.N. Dunlop Date
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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

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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: THE VALSPAR CORPORATION, Kankakee, IL

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**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
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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:

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**CERTIFIED LABORATORY
TEST REPORT**

Falling Sand

Abrasion Resistance

TEST PROCEDURE: Falling sand abrasion test Per ASTM D 968
Method A

PRODUCT TESTED: Valspar Fluropon®

TEST RESULTS: Total Sand = 67 Liters

SAMPLE NUMBER: 431A641

LOCATION: THE VALSPAR CORPORATION, Kankakee, IL

CERTIFIED BY:

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A.N. Dunlop Date
Vice President Coil & Extrusions

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**CERTIFIED LABORATORY
TEST REPORT**

Falling Sand

Abrasion Resistance

TEST PROCEDURE: Falling sand abrasion test Per ASTM D 968
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:

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Vice President Coil & Extrusions

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**CERTIFIED LABORATORY
TEST REPORT**

Film Hardness

Pencil Hardness

TEST PROCEDURE: Film hardness by pencil test per ASTM D3363

PRODUCT TESTED: Valspar Fluropon®

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

SAMPLE NUMBER: 433B365

LOCATION: THE VALSPAR CORPORATION, Kankakee, IL

CERTIFIED BY:

ATTESTED BY:

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Vice President Coil & Extrusions

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**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:

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**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:

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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:

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A.N. Dunlop 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® 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:

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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: Valspar Fluropon® on Galvalume® Steel Substrate

TEST RESULTS:

Reverse impact:
No cracking & No loss of adhesion

Direct impact:
No cracking & No loss of adhesion

SAMPLE NUMBER: 433B173

LOCATION: THE VALSPAR CORPORATION, Kankakee, IL

CERTIFIED BY:

ATTESTED BY:

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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: 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:

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Vice President Coil & Extrusions

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**CERTIFIED LABORATORY
TEST REPORT**

Mandrel Test

Formability

TEST PROCEDURE: 1/8 Inch (3 mm) Mandrel Test- 180 degree bend
Per ASTM D 522

PRODUCT TESTED: Valspar Fluropon® on Aluminum 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: THE VALSPAR CORPORATION, Kankakee, IL

CERTIFIED BY:

ATTESTED BY:

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Vice President Coil & Extrusions

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FLUROPON®

**CERTIFIED LABORATORY
TEST REPORT**

Mandrel Test

Formability

TEST PROCEDURE: 1/8 Inch (3 mm) Mandrel Test- 180 degree bend
Per ASTM D 522

PRODUCT TESTED: Valspar Fluropon® on Galvalume ® Substrate

TEST RESULTS: Acceptable

FILM APPEARANCE: No evidence of cracking, and no loss of adhesion to the
point of metal rupture

SAMPLE NUMBER: 454A336

LOCATION: THE VALSPAR CORPORATION, Kankakee, IL

CERTIFIED BY:

ATTESTED BY:

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**CERTIFIED LABORATORY
TEST REPORT**

Mandrel Test

Formability

TEST PROCEDURE: 1/8 Inch (3 mm) Mandrel Test- 180 degree bend
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: THE VALSPAR CORPORATION, Kankakee, IL

CERTIFIED BY:

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CERTIFIED LABORATORY TEST REPORT

Salt Spray

Salt Spray

TEST PROCEDURE: Salt Spray- 1000 hours per ASTM B 117, including Scribe requirement

PRODUCT TESTED: Valspar Fluropon® on Galvalume® Substrate

TEST RESULTS: Acceptable

SCRIBE: Test Rating of 7, 1/16 inch (2 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: 435A871

LOCATION: THE VALSPAR CORPORATION, Kankakee, IL

CERTIFIED BY:

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**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

CERTIFIED BY:

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**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:
Abestoscement=0 red oak flooring=100

FILM APPERANCE: 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, NJ

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**

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:

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