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ENERGY STAR® V2.1

According to the US EPA, about \$40 billion is spent annually in the US to air-condition buildings – one-sixth of all electricity generated in a year! ENERGY STAR qualified roof products reduce the amount of air conditioning needed in buildings, and can reduce energy bills by up to 50%.¹

ENERGY STAR is a program that helps consumers identify products that save them money and help protect the environment by saving energy. Valspar manufactures Valspar SR coatings for metal roofs that meet the ENERGY STAR Roof Products category qualifications requirements.

Benefits of choosing Valspar SR Cool Roof coatings:

- Get a US Federal Tax Credit up to \$1500 if you install an ENERGY STAR listed roofing product on your primary existing residence. Visit www.irs.gov or www.energystar.gov for a list of requirements and program details.
- Save money on energy bills by reducing the amount of energy required to cool buildings.
- Reduces peak energy demand by 10-15% according to the EPA which can help lower energy rates and reduce brownouts.
- Helps mitigate the “urban heat island effect,” a situation in which cities are hotter and more polluted than rural areas. This phenomenon is linked to the overuse of heat-absorbing products on surfaces and a greater energy demand on power plants resulting in more pollution.
- Valspar SR coatings that are recognized by other Green Building programs including LEED®, Cool Roof Rating Council, and Title 24 are available.
- Prepainted metal roofs coated with Valspar SR finishes are available in a wide assortment of colors including reds, browns, greens, blues, blacks, and tans. Pearlescent effect formulations such as copper, silver, and bronze are also offered.

Where to find Cool Roof products

Valspar SR coatings are available in all major Valspar coil brands including Fluropon SR, Flurothane SR, and WeatherX SR coatings. These finishes are available from leading metal building component and system manufacturers, coil coaters, and prepainted coil suppliers. ENERGY STAR publishes the Roof Products category directory on the Internet. To view the ENERGY STAR product list, go to http://www.energystar.gov/index.cfm?c=roof_prods.pr_roof_products.

Manufacturers that are ENERGY STAR partners can submit their products for qualification. Partners are required to test the solar reflectance of their roof products using US EPA Test Methods that are outlined in the ENERGY STAR Program Requirements for Roof Products. The test results are submitted to ENERGY STAR together with a Qualifying Product Information Form, which can be obtained from www.energystar.gov.

1. Source: ENERGY STAR Fact Sheet for Manufacturer’s available on www.energystar.gov

Fluropon, Flurothane, and WeatherX are registered trademarks of the Valspar Corporation. ENERGY STAR is a registered trademark of the U.S. Federal Government. LEED is a registered trademark of the US Green Building Council.

ENERGY STAR®

Version 2.1

BUILDING ENVELOPE Roof Products



INTENT

Reduce energy usage, reduce energy bills, and protect the environment through the use of energy efficient Cool Roof products such as Valspar SR coatings.

REQUIREMENTS

Solar Reflectance Properties

Low Slope roofs must have an initial solar reflectance of ≥ 0.65 . After 3 years, the solar reflectance must be ≥ 0.50 . If the product has not aged three years, it may be listed using default SR values based on established ENERGY STAR Color Families.

Low Slope roofs are defined by ENERGY STAR as surfaces with a slope of 2:12 inches or less.

Steep Slope roofs must have an initial solar reflectance of ≥ 0.25 . After 3 years, the solar reflectance must be ≥ 0.15 . If the product has not aged three years, it may be listed using default SR values based on established ENERGY STAR Color Families.

Steep Slope roofs are defined by ENERGY STAR as surfaces with a slope greater than 2:12 inches.

Emittance Properties

ENERGY STAR lists initial emittance values; however, no minimum initial emittance values are required by the program. High emittance lowers roof temperature by increasing the release of heat by thermal radiation.

Reliability

The program also requires that each company's warranty for reflective roof products must be equal in all material respects to the product warranty offered by the same company for comparable non-reflective roof products. A company that sells only reflective roof products must offer a warranty that is equal in all material respects to the standard industry warranty for comparable non-reflective roof products.

For more information, contact the Valspar Coil Coatings Division.

<p>KENTUCKY 347 Central Ave Bowling Green, KY USA42101 Telephone: 270.843.4831 Facsimile: 270.746.6851</p>	<p>TEXAS 701 South Shiloh Road Garland, TX USA 75040 Telephone: 972.276.5181 Facsimile: 972.487.7245</p>	<p>ILLINOIS 901 North Greenwood Ave Kankakee, IL USA 60901 Telephone: 815.933.5561 Facsimile: 815.936.7811</p>	<p>MEXICO Carretera Monterrey Nuevo Laredo K.M. 37.1 Ciénega de Flores, N.L. 65550 Telephone: +52.81.81242053 Fax: +52.81.81242052</p>
C O I L C O A T I N G S			
<p>CHINA No. 838 Jia Xin Road Jiading District Shanghai 201818 People's Republic of China Telephone: 86.21.5990.1345</p>	<p>FINLAND Takkatie 3, PO Box 107 FI-00371 Helsinki Finland Telephone: 358.9.506.091 Facsimile: 358.9.5060.9224</p>	<p>AUSTRALIA 203 Power Street Glendenning NSW 2761 Australia Telephone: 61.2.9839.1115 Facsimile: 61.2.9839.1199</p>	<p>OTHER MANUFACTURING SITES INCLUDE: Pittsburgh PA Montebello CA Sao Bernardo do Campo Brazil Tournus France</p>



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ENERGY STAR v2.1 allows products to be listed using default solar reflective (SR) three year aged values rather than actual three year aged values. This change reflects the recognition that prepainted metal products retain much if not all of their solar reflectance properties after three years of outdoor exposure.

In order to qualify, products must have a minimum initial SR value of 0.25 for steep slope roofs and a minimum initial SR value of 0.65 for low slope roofs. Products must also fall within the LAB color range of a listed Representative Color Family. See Color Family LAB table document for more information.

To find out if the Fluropon coating you offer can be listed on ENERGY STAR using default values, complete the *Cool Roof Value Request Form* and email to Mary Ann Johnson at mjohnson@valspar.com or to Amy Riazi at ariazi@valspar.com.

ENERGY STAR Partner companies may list qualified products as Additional Color Family Elements by submitting a *Qualifying Product Information (QPI) Form* to ENERGY STAR for each product. In section II, Valspar customers and end users should use the values listed in the table below to complete the Solar Reflectance After 3 Years box. ENERGY STAR accepts the completed Valspar *Cool Roof Value Request Form* in place of the F2 doc referenced.

Fluropon® Coatings by Valspar		
ENERGY STAR® Color Family Representative Values		
Color Family		Default 3 Year Solar Reflectance Values
1	Red	0.23
2	Terra Cotta	0.32
3	Bright Red	0.34
4	Beige/Off-White	0.55
5	Tan	0.42
6	Dark Blue	0.25
7	Med to Light Blue	0.28
8	Dark Brown	0.25
9	Med to Light Brown	0.31
10	Dark Green	0.25
11	Med to Light Green	0.32
12	White	0.65
13	Bright White	0.67
14	Black	0.25
15	Dark Gray	0.25
16	Med to Light Gray	0.35
17	Pearlescent Colors	0.35

Other items you may need to know when completing your QPI form:

- 1) Valspar does not wash panels prior to three year testing (Section 2, last box)
- 2) Valspar uses ASTM C 1549 to measure solar reflectance and ASTM C 1371 to measure thermal emittance. (Section 3, last row)

For more information, contact Mary Ann Johnson, Valspar at 1-800-301-0339.



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ENERGY STAR V2.1 allows products to be listed using default solar reflective (SR) three year aged values rather than actual three year aged values. This change reflects the recognition that prepainted metal products retain much if not all of their solar reflectance properties after three years of outdoor exposure.

In order to qualify, products must have a minimum initial SR value of 0.25 for steep slope roofs and a minimum initial SR value of 0.65 for low slope roofs. Products must also fall within the LAB color range of a listed Representative Color Family. See Color Family LAB table for more information.

To find out if the WeatherX coatings you offer can be listed on ENERGY STAR using default values, complete the *Cool Roof Value Request Form* and email to Mary Ann Johnson at mjohnson@valspar.com or to Amy Riazi at ariazi@valspar.com.

ENERGY STAR Partner companies may list qualified products as Additional Color Family Elements by submitting a *Qualifying Product Information (QPI) Form* to ENERGY STAR for each product. In section II, Valspar customers and end users should use the values listed in the table below to complete the Solar Reflectance After 3 Years box. ENERGY STAR accepts the completed Valspar *Cool Roof Value Request Form* in place of the F2 doc referenced.

WeatherX® SR Coatings by Valspar		
ENERGY STAR® Color Family Representative Values		
	Color Family	Default 3 Year Solar Reflectance Values
1	Red	0.25
2	Terra Cotta	0.32
3	Bright Red	0.32
4	Beige/Off-White	0.53
5	Tan	0.36
6	Dark Blue	0.25
7	Med to Light Blue	0.30
8	Dark Brown	0.22
9	Med to Light Brown	0.32
10	Dark Green	0.22
11	Med to Light Green	0.32
12	White	0.64
13	Bright White	0.68
14	Black	0.24
15	Dark Gray	0.25
16	Med to Light Gray	0.35

Other items you may need to know when completing your QPI form:

- 1) Valspar does not wash panels prior to three year testing (Section 2, last box)
- 2) Valspar uses ASTM C 1549 to measure solar reflectance and ASTM C 1371 to measure thermal emittance. (Section 3, last row)

For more information, contact Mary Ann Johnson, Valspar at 1-800-301-0339.