



Valspar's Solar Reflective (SRTM) coatings feature enhanced solar reflectance and emittance properties to help reduce urban heat island effects and your energy bill. Solar reflectance and emittance values are key factors that affect a roof's temperature and consequently the amount of energy needed to cool that building. The closer the values are to 1.0, the more efficiently heat is reflected and emitted.

All Valspar SR coatings have an initial SR value of 0.25 or greater. They meet the ENERGY STAR^{®1} and LEED² initial and 3-year solar reflectance value criteria for steep slope roofs. Shades of white and off-white will also meet low slope roof requirements of 0.65 or greater. Most Valspar SR coatings will also meet LEED emittance criteria of 0.9. Coatings with metallic effects are the general exception to this rule of thumb.³ Exposure data collected from Valspar's ISO 17025 certified test fence in Ft. Myers, Florida, concludes that aging will have little to no effect on the coatings future solar reflectance and emittance values.

Valspar offers SR coatings in a variety of formulations including Kynar 500[®] or Hylar 5000[®] PVDF fluoropolymers, silicone polyesters, and polyesters. These coatings have the same long life characteristics as the original formulations.

Fluoropon[®] SR = fluoropolymer coatings

Flurothane[®] SR = thick-film fluoropolymer coatings

WeatherX[™] SR = silicone polyester coatings

Valspar SR coatings are available in a wide range of colors including blacks, browns, gray, greens, reds and blues. For a sample color palette, contact Valspar and ask for a Cool Roof color fan deck.

¹ Energy Star is a U.S. Environmental Protection Agency. Visit www.energystar.gov for more details.

² The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a U.S. Green Building Council program. Visit www.usgbc.org for more details.

³ Exact solar reflectance and emittance values of Valspar coatings are available.

LEED-EB

Version 2

SUSTAINABLE SITES (SS)

Credit 6.2 1Point

Heat Island Reduction: Roof

Intent

Reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimate and human and wildlife habitat.

Requirements

Option A

- Have in place over the performance period ENERGY STAR®-compliant, high-reflectance and high emissivity roofing material that has a minimum emissivity of 0.9 when tested in accordance with ASTM 408 for a minimum of 75% of the roof surface.
- Provide records and results of quarterly inspections over the performance period to determine that these features are being maintained.

Option B

- Install/maintain a "green" (vegetated) roof for at least 50% of the roof area.
- Provide records and results of quarterly inspections over the performance period to determine that these features are being maintained.

Combinations of roofing materials that meet the requirements of Option A and Option B can be used providing they collectively cover the designated area. See the LEED-EB Reference Guide for guidance on calculating achievement of credit requirements based on using a combination of Option A and B roofing materials as well as reporting procedures.

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