



Valspar's Solar Reflective (SR™) 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<sup>®1</sup> and LEED<sup>2</sup> 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.<sup>3</sup> 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<sup>®</sup> or Hylar 5000<sup>®</sup> PVDF fluoropolymers, silicone polyesters, and polyesters. These coatings have the same long life characteristics as the original formulations.

- Fluropon<sup>®</sup> SR = fluoropolymer coatings
- Flurothane<sup>®</sup> SR = thick-film fluoropolymer coatings
- WeatherX™ SR = silicone polyester coatings
- Dynapon<sup>®</sup> SR = 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.

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<sup>1</sup> Energy Star is a U.S. Environmental Protection Agency. Visit [www.energystar.gov](http://www.energystar.gov) for more details.

<sup>2</sup> The LEED (Leadership in Energy and Environmental Design) Green Building Rating System is a U.S. Green Building Council program. Visit [www.usgbc.org](http://www.usgbc.org) for more details.

<sup>3</sup> Exact solar reflectance and emittance values of Valspar coatings are available.

# LEED-NC

Version 2.1

## SUSTAINABLE SITES (SS)

Credit 7

1-2 Points

### Landscape and Exterior Design to Reduce Heat Islands

#### Intent

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

#### Requirements

**Credit 7.1** (1 point) Provide shade (within 5 years) and/or use light-colored/high-albedo materials (reflectance of at least 0.3) and/or open grid pavement for at least 30% of the site's non-roof impervious surfaces, including parking lots, walkways, plazas, etc.; OR place a minimum of 50% of parking spaces underground or covered by structured parking; OR use an open-grid pavement system (less than 50% impervious) for a minimum of 50% of the parking lot area.

**Credit 7.2** (1 point) Use ENERGY STAR®-compliant (highly reflective) AND high emissivity roofing (emissivity of at least 0.9 when tested in accordance with ASTM 408) for a minimum of 75% of the roof surface; OR install a "green" (vegetated) roof for at least 50% of the roof area. Combinations of high albedo and vegetated roof can be used providing they collectively cover 75% of the roof area.

#### Technologies & Strategies

Shade constructed surfaces on the site with landscape features and minimize the overall building footprint. Consider replacing constructed surfaces (i.e., roof, roads, sidewalks, etc.) with vegetated surfaces such as garden roofs and open grid paving or specify light-colored, high-albedo materials to reduce the heat absorption.

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