



Sika Sarnafil® COOL ROOFING

Sika Sarnafil offers many membranes and colors to meet your cool roofing needs. Below is a summary of all of our cool roofing products and the values, listings and approvals each of them meet.

DEFINITIONS

Solar Reflectance – a measure of the ability of a surface material to reflect sunlight – including the visible, infrared and ultraviolet wavelengths – on a scale of 0 to 1. Solar reflectance is also called “albedo.”

Emittance – refers to a materials ability to release absorbed heat.

Solar Reflectance Index (SRI) – a value that incorporates both solar reflectance and emittance in a single value to represent a material’s temperature in the sun. SRI quantifies how hot a surface would get relative to standard black and standard white surfaces. Due to the way SRI is defined, particularly hot materials can even take slightly negative values, and particularly cool materials can even exceed 100. Materials with the highest SRI values are the coolest choices for roofing.

| EnergySmart Cool Colors | Initial Solar Reflectance | Aged Solar Reflectance | Initial Thermal Emittance | Aged Thermal Emittance ¹ | Solar Reflectance Index | Aged Solar Reflectance Index | Listings | Approved Slope |
|--|---------------------------|------------------------|---------------------------|-------------------------------------|-------------------------|------------------------------|--------------------|----------------|
| Sarnafil G 410 White | 0.85 | 0.74 | 0.86 | 0.84 | 107 | 90 | CRRC & Energy Star | Low & Steep |
| Sarnafil S 327 White | 0.84 | 0.76 | 0.86 | 0.85 | 105 | 93 | CRRC & Energy Star | Low & Steep |
| Sarnafil G 410 / S 327 Tan | 0.73 | 0.65 | 0.85 | 0.86 | 89 | 78 | CRRC & Energy Star | Low & Steep |
| Sarnafil G 410 / S 327 Reflective Gray | 0.73 | 0.66 | 0.89 | 0.88 | 90 | 80 | CRRC & Energy Star | Low & Steep |
| Sarnafil G 410 / S 327 Patina Green | 0.55 | 0.46 | 0.86 | 0.85 | 64 | 51 | CRRC & Energy Star | Steep |
| Sikaplan Fastened 45 White | 0.83 | 0.71 | 0.89 | 0.89 | 104 | 87 | CRRC & Energy Star | Low & Steep |
| Sikaplan Fastened 60 White | 0.85 | 0.75 | 0.89 | 0.90 | 107 | 93 | CRRC & Energy Star | Low & Steep |
| Sikaplan Adhered White | 0.85 | 0.73 | 0.89 | 0.89 | 107 | 90 | CRRC & Energy Star | Low & Steep |
| Sikaplan Tan | 0.72 | 0.65 | 0.89 | 0.88 | 88 | 78 | CRRC & Energy Star | Low & Steep |
| Sikaplan Reflective Gray | 0.73 | 0.66 | 0.89 | 0.88 | 90 | 80 | CRRC & Energy Star | Low & Steep |

¹ Applicable only to CRRC