

SMARTKOTE®

Cool Coatings (PVDF)

SmartKote® coatings feature vivid, fade-resistant color, incredible durability and environmentally friendly "cool" technology originally developed for stealth aircraft in the U.S. military.



Wall & Roof Panels: Long Span III Wall & Roof & Architectural III & "V" Rib Wall (26 Ga. Standard)



Roof Panels: Loc-Seam & Seam-Loc (24 Ga. Standard)



Roof Panels: Standing Seam 360 & Standing Seam II (24 Ga. Standard)



These SmartKote® coatings have an optional 35-year paint finish warranty. Contact us for information.

Commercial & Industrial SP-COOL™ Paint System

The American Buildings Silicone-Polyester SP-COOL™ paint system is a two-coat system that offers superior quality and durability. It is ideally suited for commercial, industrial and agricultural structures.

Wall & Roof Panels: Long Span III Wall & Roof & Architectural III & "V" Rib Wall (26 Ga. Standard); *SS II (24 Ga. Standard)



*SS II available only in Polar White as standard.

SP-COOL™ coatings have a 25-year paint finish warranty.



Reflectance, Thermal Emittance and Solar Reflectance Index (SRI)

Solar Reflectance

To be considered "cool," products must have a Solar Reflectance of at least .25. Solar Reflectance is the fraction of the total solar energy that is reflected away from a surface.

Thermal Emittance

Thermal Emittance is the measure of a panel's ability to release heat that it has absorbed.

Solar Reflectance Index (SRI)

Put Solar Reflectance and Thermal Emittance together and you get the Solar Reflectance Index (SRI). SRI is calculated by using the values of solar reflectance, thermal emittance and a medium wind coefficient. The higher the SRI value, the lower its surface temperature and its heat gain into the building. Cool metal roofs coated with the COOL-pigmented PVDF resin achieve an SRI of 29-87, depending on the color.

Conventional roof surfaces have low reflectance (0.05 to 0.25) and high thermal emittance (typically over .85). Roof panels with both high reflectance and high emittance can reduce the surface temperature by as much as 30-50% based on color and geographic location, which will result in a reduced heat gain to the building, therefore reducing energy demand.

SmartKote® Panel Colors

Color	Initial Solar Reflectance (IR)	Initial Thermal Emittance (IE)	Solar Reflectance Index (SRI)
Regal White	.72	0.86	87
Reflective White	.64	0.86	76
Warm White	.59	0.88	70
Light Stone	.58	0.86	68
Taupe Sand	.57	0.86	67
Surrey Beige	.51	0.86	58
Pearl Gray	.50	0.87	57
Light Bronze	.44	0.87	49
Slate Gray	.37	0.87	40
Terra Cotta	.35	0.85	36
Hemlock Green	.34	0.87	36
Colonial Red	.32	0.85	32
Medium Bronze	.30	0.87	31
Evergreen	.30	0.87	31
Dark Bronze	.29	0.85	29
Royal Blue	.29	0.85	29

SP-COOL Panel Colors

Polar White	.66	0.86	79
Sandstone	.59	0.87	70
Sagebrush Tan	.47	0.85	53
Fox Gray	.43	0.85	47

Bare Galvalume

Initial	.77	0.08	72
3 Years	.51	0.19	26

Cool science isn't just a meaningless marketing term. It's a technology that is literally revolutionizing the building industry. Combating urban heat islands and high-energy consumption will require innovative products that meet or exceed even the most stringent industry requirements. Our cool SmartKote® and SP-Cool™ panels are those types of products.

Just think, the more energy costs rise, the more money you save with SmartKote® and SP-Cool™.

