

Cool Coatings - PVDF Kynar®/Hylar®

cool-scape™ coatings feature vivid, fade-resistant color, incredible durability and environmentally friendly cool technology. All cool-scape colors have a 35-year finish warranty.

Roof Panels: Loc-Seam (24 Gauge Standard) & Long Span III (26 Gauge Standard) Standard Colors



Dark Bronze† IR .31 SRI 32



Evergreen† IR .31 SRI 31



Royal Blue† IR .30 SRI 31



Slate Gray† IR .36 SRI 37



Terra Cotta† IR .35 SRI 35



Regal White† IR .72 SRI 88



Warm White† IR .62 SRI 73



Surrey Beige† IR .48 SRI 53

Roof Panels: Loc-Seam (24 Gauge Standard) & Long Span III (26 Gauge Standard) Non-Stock Colors *



Hemlock Green† IR .34 SRI 34



Colonial Red† IR .33 SRI 33



Medium Bronze† IR .32 SRI 31



Light Bronze† IR .40 SRI 43



Pearl Gray† IR .46 SRI 50



Light Stone† IR .54 SRI 62



Taupe Sand† IR .52 SRI 59



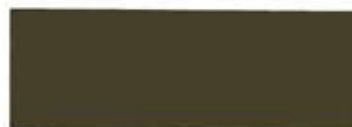
Reflective White† IR .61 SRI 72

* Non-Stock colors require additional lead times and possible up-charge over standard colors.

Roof Panels: Standing Seam 360 & Standing Seam II (24 Gauge Standard) Standard Colors



Regal White† IR .72 SRI 88



Dark Bronze† IR .31 SRI 32



Evergreen† IR .31 SRI 31

SmartKote Standard Color Availability

Panel Type	Standard Gauges	Regal White	Warm White	Surrey Beige	Slate Gray	Dark Bronze	Terra Cotta	Ever-green	Royal Blue	Bare Aluminum Zinc Coated	Aluminum Zinc Coated + Acrylic
Long Span III Wall	26 Ga.	X	X	X	X	X	X	X	X		X
Long Span III Roof	26 Ga.	X	X	X	X	X	X	X	X	X	
Architectural III	26 Ga.	X	X	X	X	X	X	X	X		X
Architectural "V" Rib	26 Ga.	X	X	X	X	X	X	X	X		X
16" Loc Seam Roof	24 Ga.	X	X	X	X	X	X	X	X	X	
Shadow Panel Wall	24 Ga.	X	X	X		X		X	X		
Soffit Liner	24 Ga.	X	X	X	X	X	X	X	X		
Standing Seam II	24 Ga.	X				X		X		X	
Standing Seam 360	24 Ga.	X				X		X		X	

All profiles in this chart are available in Non-Stock colors with an extended lead time and possible additional up-charge.

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 heat gain into the building. Cool metal roofs coated with the COOL-pigmented PVDF resin achieve an SRI of 31-88, 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.

cool-scape™ Panel Colors

Color	Initial Solar Reflectance (IR)	Initial Thermal Emittance (IE)	Solar Reflectance Index (SRI)
Regal White	.72	0.85	88
Reflective White	.61	0.85	72
Warm White	.62	0.84	73
Light Stone	.54	0.85	62
Taupe Sand	.52	0.83	59
Surrey Beige	.48	0.83	53
Pearl Gray	.46	0.83	50
Light Bronze	.40	0.84	43
Slate Gray	.36	0.83	37
Terra Cotta	.35	0.84	35
Hemlock Green	.34	0.83	34
Colonial Red	.33	0.83	33
Medium Bronze	.32	0.83	31
Evergreen	.31	0.85	31
Dark Bronze	.31	0.87	32
Royal Blue	.30	0.86	31

Bare Aluminum Zinc Coated

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-scape™ panel is that type of product.

Just think, the more energy costs rise, the more money you save with cool-scape™.

Film Properties	Test Method	Performance
Dry Film Thickness	ASTM D5796 Primer ASTM D1005	0.3 mils minimum Topcoat 1.0 mil system (+/- .05) Backer 0.5 mil system (+/- .05)
Specular Gloss	ASTM D523	Low gloss, 5-12% @ 60°
Dry Film Hardness	ASTM D3363	HB minimum
Film Adhesion - Dry, wet, boiling water	ASTM 3359	Excellent, no removal
Formability	ASTM D4145	2 T Bend - no removal
Abrasion Resistance - Falling Sand - Gardner Scratch - Taber Abrasion	ASTM D968 ASTM D2197 ASTM D4060	Exceeds 65 liters/mil 250-300 grams load CS 10 wheels/20mg loss/100 cycles
Chemical & Detergent Resistance	ASTM D1308	Excellent - no attack
Salt Spray Resistance	ASTM B117	Passes 1,000 hours, Galvalume
Humidity Resistance	ASTM D2247	Passes 1,000 hours, HDG/Galvalume
South Florida Weathering - Color Retention - Chalk Resistance	D2244 D4214	<5dE change after 35 years >8 chalk rating

**These premium coatings have a 35-year paint finish warranty.
Contact AMS for information.**



Architectural Metal Systems
Marketing Information Line
888.621.5020
www.americanbuildingscompany.com

ABC - Atlantic Division
501 Golden Eagle Drive
La Crosse, VA 23950
Tel: 706.562.8020
Fax: 706.562.8017

ABC - South Division
1150 State Docks Road
Eufaula, AL 36027
Tel: 334.688.2032
Fax: 334.688.2185

ABC - Midwest Division
2101 East Main Street
El Paso, IL 61738
Tel: 309.527.1500
Fax: 309.527.1522

ABC - West Division
2260 Tenaya Drive
Modesto, CA 95354
Tel: 209.236.0580
Fax: 209.236.0588