



THE BEST COLORS. THE BEST WAY TO KEEP COOL.

We've streamlined our color selection to include only our most popular, energy efficient options.

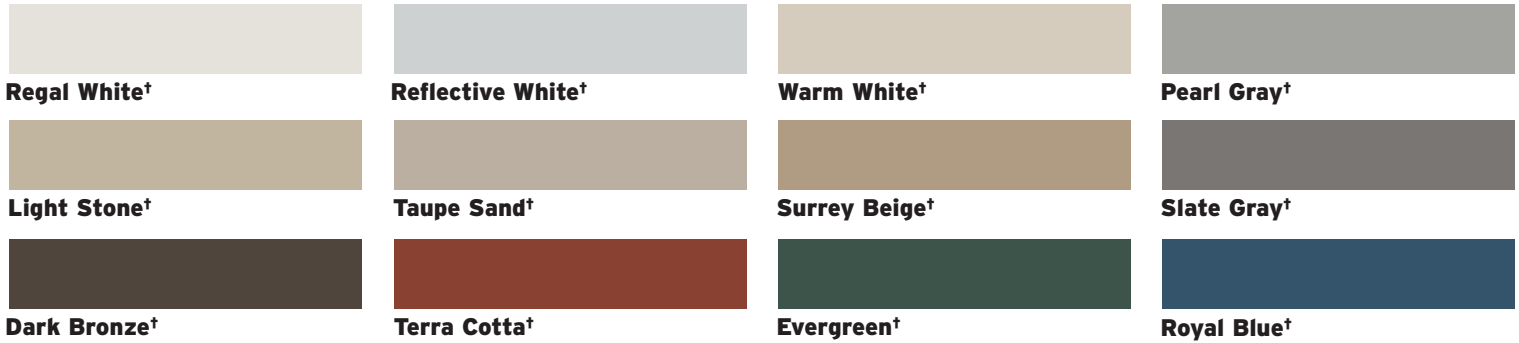


SMARTKOTE® Choosing the right color has never been easier:

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.

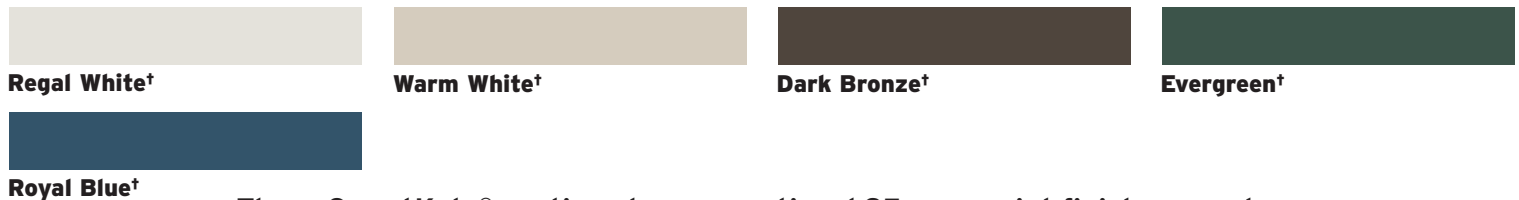
Wall & Roof Panels: Long Span III Wall & Roof & Architectural III & "V" Rib Wall (26 Ga. Standard)



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.

Colors on this page are print approximations only and should not be used for actual color selection. Please refer to an ABC color chart when choosing colors.



Wall, Liner, Fascia and Soffit Panel Availability

	Color	Long Span III Architectural III MRP (Not for Exterior)				Architec. "V" Rib	Shadow Panel	Soffit Liner (Not for Exterior Walls)		
		29 Ga.	26 Ga.	24 Ga.	22 Ga.			26 Ga.	24 Ga.	Solid & Vented
										0.032 AL
SmartKote® (P70)	Colonial Red								B	
	Dark Bronze		A	B		B	B		B	
	Evergreen		A	B		B	B		B	
	Hemlock Green								B	
	Light Bronze								B	
	Light Stone		A	B			B		B	
	Medium Bronze								B	
	Pearl Gray		A	B			B		B	
	Reflective White		A	B					B	
	Regal White		A	B		B	B	B	B	
	Royal Blue		A	B		B	B		B	
	Slate Gray		A	B					B	
	Surrey Beige		A	B		B	B		B	
	Taupe Sand		A	B			B		B	
	Terra Cotta		A	B		B			B	
Warm White		A	B		B	B		B		
Silicone Polyester (SP)	Fox Gray		A	B		B				
	Polar White	A	A	B		B				
	Sagebrush Tan		A	B		B				
	Sandstone		A	B		B				
	Aluminum Coated	NA	NA	NA	NA	NA	NA	NA	NA	
	Galvalume Plus	A	B	B						

Roof Panel Availability

	Color	Long Span III			Standing Seam II Standing Seam 360		16" Loc Seam 16" Loc Seam 360 18" Seam Loc		12" Loc Seam 12" Loc Seam 360 12"&16" Seam Loc	
		26 Ga.	24 Ga.	22 Ga.	24 Ga.	22 Ga.	24 Ga.	22 Ga.	24 Ga.	22 Ga.
SmartKote® (P70)	Colonial Red						A	B	B	
	Dark Bronze	A	B		A		A	B	B	
	Evergreen	A	B		A		A	B	B	
	Hemlock Green						A	B	B	
	Light Bronze						A	B	B	
	Light Stone	A	B				A	B	B	
	Medium Bronze						A	B	B	
	Pearl Gray	A	B				A	B	B	
	Reflective White	A	B				A	B	B	
	Regal White	A	B		A		A	B	B	
	Royal Blue	A	B		A		A	B	B	
	Slate Gray	A	B				A	B	B	
	Surrey Beige	A	B				A	B	B	
	Taupe Sand	A	B				A	B	B	
	Terra Cotta	A	B				A	B	B	
Warm White	A	B		A		A	B	B		
Silicone Polyester (SMP)	Fox Gray	A	B			NA				
	Polar White	A	B		A ¹	NA				
	Sagebrush Tan	A	B			NA				
	Sandstone	A	B			NA				
	Aluminum Coated	A	A	A	A	A	A	A	B	
	Galvalume Plus	B	B							

Notations:

A = Available as a "Stocked" Standard Color.

A¹ = Available only for Standing Seam II as a "Stocked" Standard Color. Standing Seam 360 panels are NA.

B = Available as a "Non-Stocked" Standard Color which requires additional lead time.

NA = Not available due to application issues.

Other color/panel combinations are "SPECIAL", requiring project specific scheduling & pricing by Estimating.

SmartKote® PVDF

Technical Information

Film Properties	Test Method	Performance
Dry Film Thickness	ASTM D5796 Primer	0.3 mils minimum
	ASTM D1005	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 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

SP-COOL™

Technical Information

Film Properties	Test Method	Performance
Accelerated Weathering	ASTM1 G-153 Weatherometer	Passes 3,000 hours
	ASTM D-4214 Chalk Resistance ASTM 4587 UV Exposure	#8 Chalk rating, passes Passes 1,000 hours
Exterior Weathering Florida Exposure	ASTM D-2244 Color	<5 units color change
Mortar Resistance	AAMA8 605.2 24 Hour Pat Test	No effect
Detergent Resistance	ASTM D-2248 3% Detergent, 100°F, 72 Hours	No effect
Resistance to Acid Pollutants	Per ASTM D-1308, Proc. 7.2 10% Muriatic Acid (15 minutes) 20% Sulfuric Acid (24 hours) AAMA 605.2 Text 7.7, 3.1 70% Nitric Acid Vapors (30 minutes)	49.0% No effect No effect <5 units color change
Alkali Resistance	Kesternich, S02 Cyclic Test (2 liters) ASTM D-1308 10%, 20% Sodium Hydroxide (1 hour)	10 cycles no effect No effect
Salt Fog	ASTM B-117 5% Salt Fog @ 95° F	Passes 1,000 hours
Humidity	ASTM D-2247 100% Relative Humidity @ 100° F	Passes 1,000 hours
Condensing Humidity Cabinet - CCH Testing	240 hours @ 140° F per ASTM D-45895-86 and NCCA Bulletin III-6	Passes 1,000 hours

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™.



American Buildings Company
1150 State Docks Road
Eufaula, AL 36027-3344
888.307.4338
www.americanbuildings.com



© 2011 American Buildings Company
FORM #00301

