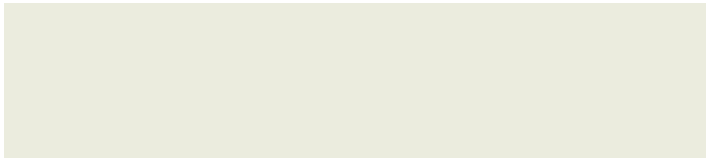


SMARTKOTE®

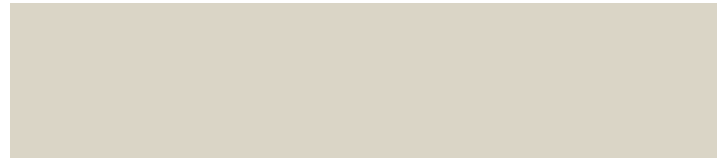
Cool Coatings (PVDF)

SmartKote is a two-coat system featuring fade-resistant color, incredible durability and environmentally friendly "cool" technology.



Regal White †

IR .72 SRI 88



Warm White †

IR .62 SRI 73



Surrey Beige †

IR .48 SRI 53



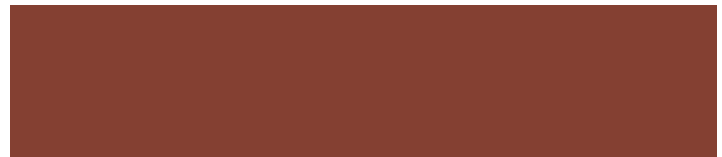
Slate Gray †

IR .36 SRI 37



Dark Bronze †

IR .31 SRI 32



Terra Cotta †

IR .35 SRI 35



Evergreen †

IR .31 SRI 31



Royal Blue †

IR .30 SRI 31

All standard SmartKote® colors have a 35-year finish warranty.

Colors shown closely approximate actual coating colors.

These colors utilize Cool Coating Technology.

The term "TBK" on the ABC Order Document refers to "To Be Selected" from standard ABC PVDF colors as shown on this chart.

Please note that SmartKote is a slight upcharge over SP COOL.



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	

PRODUCT SPECIFICATIONS

Solar 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.

Solar Reflectance Index (SRI)

Put Solar Reflectance and Thermal Emittance together and you get the Solar Reflective 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 consequently, the heat gain into the building. Cool metal roofs coated with the SmartKote COOL-pigmented PVDF resin achieve an SRI of 31-88, depending on the color.

Thermal Emittance

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

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 the energy demand.

SMARTKOTE PANEL COLORS

SMARTKOTE COLOR	INITIAL SOLAR REFLECTANCE (IR)	INITIAL THERMAL EMITTANCE (IE)	SOLAR REFLECTIVE INDEX (SRI)
Regal White	.72	0.85	88
Warm White	.62	0.84	73
Surrey Beige	.48	0.83	53
Slate Gray	.36	0.83	37
Dark Bronze	.31	0.87	32
Terra Cotta	.35	0.84	35
Evergreen	.31	0.85	31
Royal Blue	.30	0.86	31
Bare Aluminum Zinc Coated	.77	0.08	72

SMARTKOTE PVDF TECHNICAL INFORMATION

TEST	TEST METHODS	PERFORMANCE
Dry Film Thickness	ASTM D 5796 Primer ASTM D 1005	0.3 mils minimum Topcoat 0.7 mils system (+/- .05) Backer 0.5 mils 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 D3359	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 C.S. 10 wheel/20 mg 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 - Crack Resistance	D2244 D4214	<5dE change after 35 years >8 chalk rating



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