

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 |



American Buildings Company
Marketing Information Line
888.307.4338
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