

KIRBY SP- COOL

KIRBY SP- COOL Paint System is a two-coat system which offers superior quality and durability. It is ideally suited for commercial, industrial and agricultural structures.



The standard Silicone-Polyester colors shown on this chart feature a 25-year finish warranty. Warranties apply to the finish coat of exterior mounted panels. Backer side primer color may vary.

	Burnished Slate (BS)	Forest Green (GR)	Aztec Blue (AB)	Brick Red (RP)	Sagebrush Tan (ST)	Fox Gray (FG)	Sandstone (SS)	Polar White (PW)	Zinc Aluminum (ZA)
KirbyWall Panel	●	●	●	●	●	●	●	●	●
KRP Wall Panel	●	●	●	●	●	●	●	●	●
KirbyRib II Wall Panel	●	●	●	●	●	●	●	●	●
KirbyRib II Roof Panel	●	●	●	●	●	●	●	●	●
KLS 2100 Roof Panel	□	□	□	□	●	●	●	●	●
KLM 2100 Roof Panel	NOT AVAILABLE								●
Roof-Lok Panel	NOT AVAILABLE								●
Roof-Lok Plus Panel	NOT AVAILABLE								●
Trim	●	●	●	●	●	●	●	●	●
● Available □ Non Stock Colors. Note: These colors may require extended delivery times.									

These coatings are manufactured by PPG Industrial Coatings.
 Colors shown approximate actual coating colors.

PRODUCT SPECIFICATIONS

Solar Reflectance, Thermal Emittance and Solar Reflective 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 Reflective 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 COOL-pigmented silicone-polyester resin achieve an SRI of 24-79, depending on the color.

SP-COOL PANEL COLORS

SP-COOL COLOR	INITIAL SOLAR REFLECTANCE (IR)	INITIAL THERMAL EMITTANCE (IE)	SOLAR REFLECTIVE INDEX (SRI)	
Polar White	.66	0.86	79	
Sandstone	.59	0.87	70	
Sagebrush Tan	.47	0.85	53	
Fox Gray	.43	0.85	47	
Burnished Slate	.31	0.86	32	
Brick Red	.32	0.83	32	
Forest Green	.26	0.86	25	
Aztec Blue	.25	0.86	24	
Bare Aluminum Zinc Coated	Initial	.77	0.08	72
	3 Years	.51	0.19	26

SP-COOL TECHNICAL INFORMATION

FILM PROPERTIES	TEST METHODS & DESCRIPTIONS	PERFORMANCE
Accelerated Weathering	ASTM1 G-153 Weatherometer ASTM D-4214 Chalk Resistance ASTM 4587 UV Exposure	Passes 3,000 hours #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, SO2 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-4585-86 and NCCA Bulletin III-6	Passes 1,000 hours



KIRBY
BUILDING
SYSTEMS
A TILCOR Company