

DURANAR® VARI-COOL® Fluoropolymer Coatings

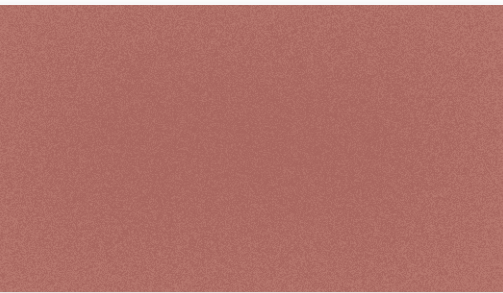
Imagine a roof that subtly shifts color from warm, terra cotta to rich, copper-brown and finally to vivid, tropical green. That's *Duranar* VARI-Cool coatings in action. There's no other product that offers designers a unique look and meets the needs of builders. This groundbreaking, polychromatic coating from PPG Industries delivers a palette of vibrant color while offering excellent protection that takes each project far into the future.

Duranar VARI-Cool coatings are a premium fluoropolymer (PVDF) pearlescent coating system created on the foundation of Kynar 500® or Hylar 5000® resin. It is the only coil-formed polychromatic coating integrating energy-saving ULTRA-Cool technology. *Duranar* VARI-Cool coil coatings meet Cool Roof requirements of LEED, ENERGY STAR®, Title 24 and ASHRAE 90.1.



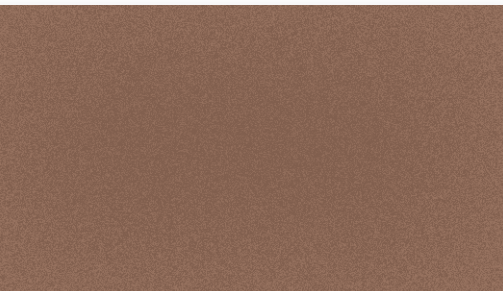
Mesa Sunrise

865X15



Copper Brown Patina

865X9



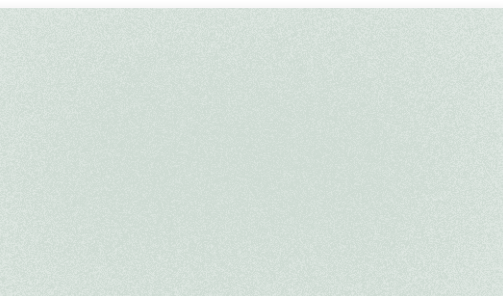
Serengeti Oasis

865X2



Kaleidoscope

865X13



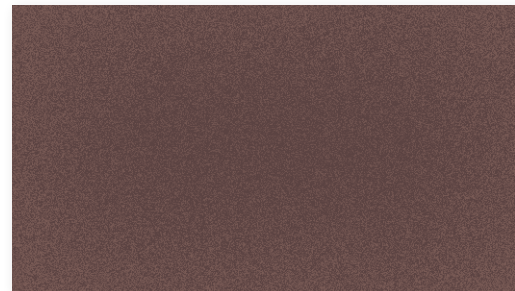
Red Copper Patina

865X7



Antique Brass Patina

865X8



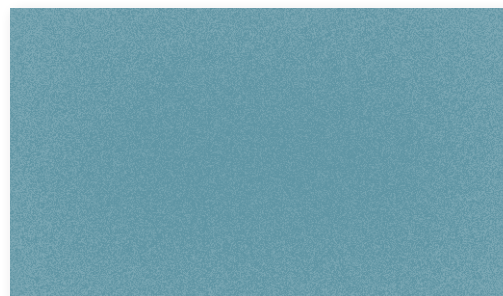
Mojave Cactus

865X3



Jamaican Reef

865X4



Tropic Waterfall

865X5



DURANAR[®] VARI-COOL[®]

Fluoropolymer Coatings

	ASTM	Aluminum Substrate	Coated Steel ¹ Substrate
Dry Film Thickness (Nominal)	D1400	0.20 mil primer 0.70 - 0.80 mil topcoat	0.20 mil primer 0.70 - 0.80 mil topcoat
Gloss @ 60°	D523	10 – 40	10 – 40
Solar Reflectance Steep Slope: Low Slope:	E903	>25% Initial; >15% after 3 years >65% Initial; >50% after 3 years	>25% Initial; >15% after 3 years >65% Initial; >50% after 3 years
Emissivity	C1371 E408	0.80 (80%) min.	0.80 (80%) min.
Pencil Hardness	D3363	F-2H	F-2H
Flexibility, T-Bend ²	D4145	0-2 T-bend; No pick-off	0-2 T-bend; No pick-off
Adhesion	D3359	No adhesion loss	No adhesion loss
Reverse Impact	D2794	1.5 x metal thickness, no cracking or adhesion loss	3.0 x metal thickness, no cracking or adhesion loss
Abrasion, Falling Sand	D968	65 – 85 l/mil	65 – 85 l/mil
Mortar Resistance	C267	No effect	No effect
Detergent Resistance, 3% Detergent, 100° F, 72 Hrs.	D2248	No effect	No effect
Acid Resistance 10% muriatic acid - 24 hrs. 20% sulfuric acid - 18 hrs.	D1308	No effect No effect	No effect No effect
Acid Rain Test Kesternich S02 DIN 50018	N/A	15 cycles minimum, no objectionable color change	15 cycles minimum, no objectionable color change
Alkali Resistance 10%, 25% NaOH - 1 hr.	D1308	No effect	No effect
Salt Spray Resistance, 5% Salt Fog @ 95° F	B117	No face blistering; max. average 1/16" scribe creep. Passes 4,000 hrs.	None or few #8 blisters; max. average 1/8" scribe creep. Passes 1,000 hrs.
Humidity Resistance, 100% Relative Humidity @ 95°F	D714 D2247	Passes 4,000 hrs. No #8 blisters	Passes 1,000 hrs. No #8 blisters
Exterior Exposure 10 yrs. @ 45°, South Florida	D4214	Max. 5 fade Max. 8 chalk	Max. 5 fade Max. 8 chalk

¹ Coated Steel Substrate includes the following types of steel: G90 hot dip galvanized, Galvalume, and Zinalume.

² Fracturing or rupturing of substrate will rupture coatings. Heavy gauge and clad steel substrates impose limitations on formability.

Reflectance values measured using a D&S Solar Reflectometer, values may vary between instruments and method. The test results set forth are representative of the results obtained by PPG. Your results may differ. Warranties of the product are exclusive as set forth in the applicable contract documents.

The *Cooladillo* indicates that the technology is available in cool.

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