Long-lasting color with proven performance

PPG DURASTAR® ULTRA-COOL® silicone-modified polyester cool-technology coil coatings

We protect and beautify the world™

Not just cool... *ULTRA-COOL*

Based on proprietary resin technology and an exclusive coatings formulation process, *Durastar ULTRA-Cool* silicone-modified polyester (SMP) coatings deliver a cost-effective blend of exceptional exterior durability and our proprietary infrared (IR)-reflective cool coating technology.

Formulated to provide the exterior durability necessary for agricultural, industrial, commercial and residential metal roofing and sidewall panels, the coatings are designed for two-coat application on properly cleaned and pretreated aluminum and steel substrates, including hot-dip galvanized steel, GALVALUME® and ZINCALUME®.

Durastar ULTRA-Cool SMP coatings also deliver an excellent balance of exterior gloss, color retention, chalk resistance and form flexibility in a wide variety of colors and gloss options. The coatings also meet a variety of cool roof requirements, with numerous colors registered with the Cool Roof Rating Council and ENERGY STAR®.

Unique Benefits

- Optimized balance of exceptional exterior UV durability and flexibility
- Flexible coating that withstands the demands of roll forming
- Excellent resistance to stains, ultraviolet radiation, weather and humidity
- Compatibility with a wide variety of aluminum and metal surfaces
- Two-coat application with proven performance when used over our universal primer
- Product differentiation through wide variety color and gloss
- Recoatable product may reduce maintenance costs
- Long-term surface protection with competitive scratch resistance and film hardness

Suggested markets

Building products

Suggested end uses

Roof and exterior wall panels

Building components

Cool roof specifications

LEED®

ENERGY STAR

Title 24

ASHRAE 90.1

The science behind *Durastar Ultra-COOL* coatings

Color built on a trusted, proven platform

Durastar ULTRA-Cool coatings use the same pigments that have been formulated for our flagship PPG DURANAR® PVDF coatings — a brand that has been trusted by architects and designers for over 50 years. *Durastar ULTRA-Cool* coatings are known for their wide color palette, high-chroma colors and state-of-the-art pigment dispersion technology. Those color competencies allow for deep, rich, long-lasting and consistent color for every project.

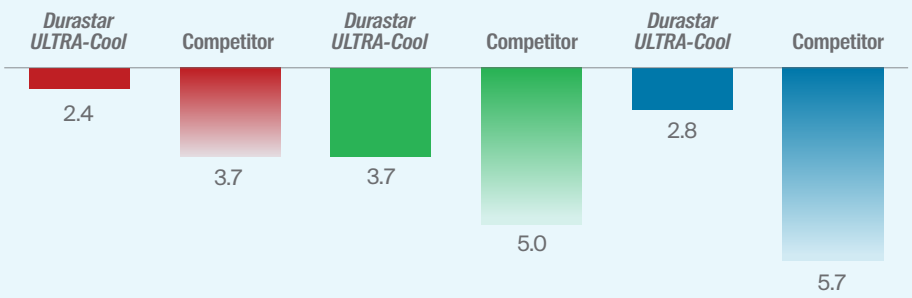
Exposure testing at PPG's global facilities

Durastar ULTRA-Cool coatings provide outstanding resistance to color and gloss fade. The coatings are tested at PPG's exposure sites throughout the world in different types of climates and industrial conditions to ensure performance and long-term durability. Pigments are tested extensively prior to approval for use and formulated for maximum efficiency.

Durastar ULTRA-Cool coatings retain color longer than the competitor

Color fade, 8.5 years, South Florida Exposure

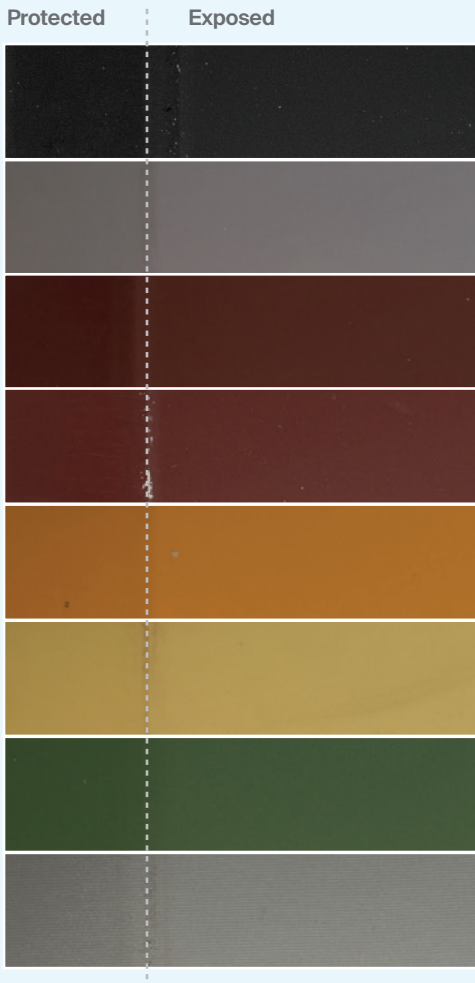
Using red, green and blue coatings from PPG and a competitor, we compared samples that were exposed to outdoor weathering for 8.5 years against samples that were protected and unexposed for the same period of time.



Color retention

10+ years, South Florida Exposure

With over a decade of outdoor exposure, samples of *Durastar ULTRA-Cool* SMP coatings show minimal loss in color versus protected, unexposed standards.



Durastar ULTRA-Cool coil coating products

Specifications	Test Standard	Aluminum Substrate	Coated Steel Substrate[1]
Dry Film Thickness (Nominal)	ASTM D1005	0.15-0.30 mil primer 0.70-0.90 mil topcoat	0.15-0.30 mil primer 0.70-0.90 mil topcoat
Gloss	ASTM D523 @ 60˚	10-80+	10-80+
Solar Reflectance	ASTM E903, ASTM E1918 using portable reflectometer	0.25 (25%) min.	0.25 (25%) min.
Emissivity	ASTM C1371, ASTM E408	0.80 (80%) min.	0.80 (80%) min.
Pencil Hardness	ASTM D3363	F min.	F min.
Flexibility[2]	T-bend, ASTM D4145	2 T-bend, no pick-off	2 T-bend, no pick-off
Adhesion	ASTM D3359	1.5x metal thickness, no adhesion loss	1.5x metal thickness, no adhesion loss
Reverse Impact	ASTM D2794	2x gauge or 80” lbs.	2x gauge or 80” lbs.
Abrasion, Falling Sand	ASTM D968	25-40 l/mil	25-40 l/mil
Mortar Resistance	ASTM C267	No effect	No effect
Detergent Resistence	ASTM D2248 3% detergent @ 100˚ F – 72 hrs.	No effect	No effect
Acid Resistance	ASTM D1308 10% muriatic acid – 15 min. 20% sulfuric acid – 24 hrs.	 No effect No effect	 No effect No effect
Acid Rain Test	Kesternich SO_2, DIN 50018	10 cycles No objectionable changes	10 cycles No objectionable changes
Alkali Resistance	ASTM D1308 10%, 20% NaOH, 1 hr.	No effect	No effect
Salt Spray Resistance	ASTM B117 5% salt fog @ 95˚ F	Passes 1,000 hrs.	Passes 1,000 hrs.
Humidity Resistance	ASTM D714, ASTM D2247 100% relative humidity @ 95˚ F	Passes 1,000 hrs. No blisters, cracks or peeling	Passes 1,000 hrs. No blisters, cracks or peeling
Exterior Exposure	ASTM D2244, ASTM D4214 10 yrs. @ 45˚, South Florida	Max. 5 fade Max. 8 chalk	Max. 5 fade Max. 8 chalk

[1] Coated Steel includes the following types of steel: G90 hot dip galvanized, Galvalume, and Zincalume.

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

Durastar ULTRA-Cool Coatings Warranty Information

PPG offers a warranty on *Durastar ULTRA-Cool* coil coatings. For complete warranty information and a copy of the *Durastar ULTRA-Cool* coil coatings limited warranty, please call PPG at 1-800-258-6398.

PPG Industrial Coatings • One PPG Place, Pittsburgh, PA 15272 • 1.800.258.6398 • ppgmetalcoatings.com

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