

Trusted performance.
Exceptional color.



PPG DURANAR[®] solid color,
mica and metallic coil coatings



We protect and beautify the world™



Tough. Colorful. Trusted for over 50 years.

Duranar coil coatings are multi-coat systems consisting of, at a minimum, a corrosion-inhibitive primer and a fluoropolymer topcoat. Depending on substrate, color, effect and end-use location, some *Duranar* products may require additional barrier coat and clear coat layers.

These products deliver outstanding aesthetics and durability for an array of high-end architectural applications, including metal roof and wall panels. *Duranar* coil coating systems combine PPG-proprietary resin and pigment technologies with 70% fluoropolymer base resins. Trusted by architects and builders for more than 50 years, they have set the standard for excellence in architectural finishes with their proven resistance to color fading, acid rain, ultraviolet rays, chipping and peeling when properly applied by an approved applicator.

Duranar coil coating systems meet or exceed AAMA 2605 performance requirements. They are available in a wide range of consistent and stable colors, and approved for use on properly cleaned and treated aluminum and coated steel products such as G90 hot-dip galvanized, GALFAN®, GALVALUME® and ZINCALUME® substrates.

The PPG Benefit

- Long-term durability
- Excellent resistance to chalk and color fade, preserving building aesthetics
- Outstanding corrosion resistance
- Excellent flexibility helps with rigorous post-forming operations
- High resistance to chemical attack
- Minimal maintenance: can be cleaned with mild detergents and solvents
- Minor scratches can be repaired in the field

Suggested markets

Building products

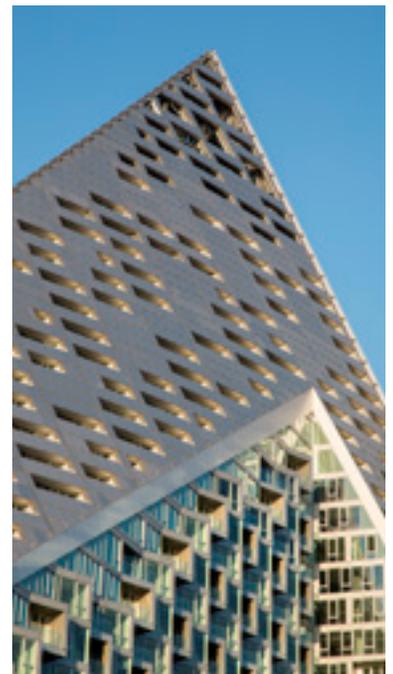
Suggested end uses

Building panels

High-end storefronts

Curtain walls

Roof panels



Durandar coil coating products



Durandar Solid Color Coil Coating System

When it comes to architectural design, color matters. So does performance. That is why generations of architects and building owners have counted on *Durandar* coil coatings to protect and beautify their metal building surfaces in various climates around the world. PPG offers an extensive color palette in a wide range of formulations, each designed to provide the desired balance of cost, aesthetics and performance.



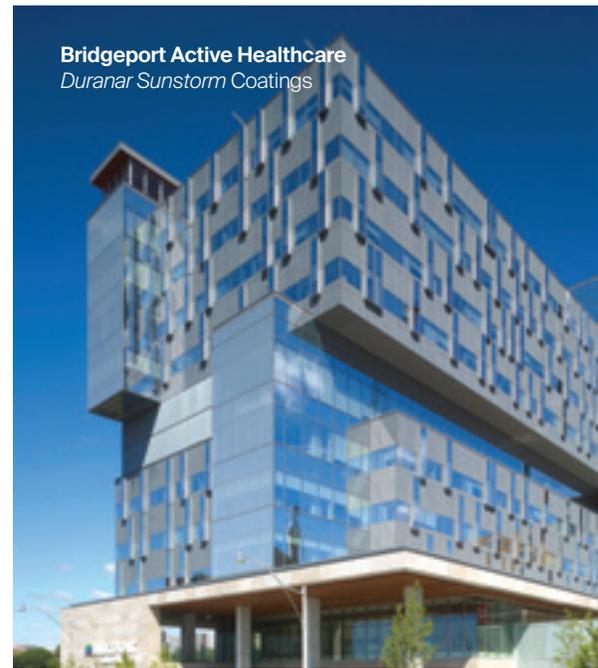
Durandar SUNSTORM® Mica-Effect Coil Coating System

Durandar Sunstorm coating systems feature the same two-coat application as conventional *Durandar* solid color coating systems, adding pearlescent mica flake to the color layer to create a dazzling metalescent look – without the need for aluminum flake or a third-layer clear coat. *Durandar Sunstorm* coatings can also be formulated with PPG's proprietary ULTRA-COOL® infrared (IR)-reflective coating technology to help make buildings cooler, more comfortable and more energy-efficient.



Durandar XL Metallic Coil Coating System

Durandar XL metallic coating systems offer added protection on metal roofs, wall panels and architectural components in difficult seacoast and industrial environments. The three- and four-coat systems consist of a primer, a barrier coat, a color coat (with or without mica flake) and a clear topcoat. The clear topcoat protects the color coat from atmospheric pollutants and enhances its durability. The barrier coat provides excellent UV protection for the primer when semi-transparent colors are applied. The overall film thickness creates a system with outstanding barrier protection, corrosion resistance, chemical resistance and toughness.



Duranar coil coating products

Characteristics and performance apply to *Duranar Solid*, *Duranar Sunstorm* and *Duranar XL* coating systems.



Product Characteristics	Test Standard	Aluminum	Coated Steel ¹
Dry Film Thickness	ASTM D1400	0.20-0.30 mil primer 0.70-0.80 mil color/metallic 0.30-0.40 mil clear topcoat	0.20 mil primer 0.75 mil barrier 0.75 mil color/metallic 0.50 mil clear topcoat
Gloss	ASTM D523 Standard @ 60° Low gloss @ 85°	25 - 35 < 10	25 - 35 < 10

Performance Properties ²	Test Standard	Aluminum	Coated Steel ¹
Pencil Hardness	ASTM D3363	F - 2H	F - 2H
Flexibility (T-Bend) ²	ASTM 4145	0 - 2 T-bend; no pick-off	0 - 2 T-bend; no pick-off
Adhesion	ASTM D3359	No adhesion loss	No adhesion loss
Reverse Impact	ASTM D2794 1.5 x metal thickness (aluminum) 3.0 x metal thickness (coated steel)	No cracking or adhesion loss No cracking or adhesion loss	No cracking or adhesion loss No cracking or adhesion loss
Acid Resistance	ASTM D1308 10% muriatic acid - 24 hours 20% sulfuric acid - 18 hours	No effect No effect	No effect No effect
Acid Rain Test	Kesternich SO ₂ , DIN 50018	15 cycles minimum No objectionable change	15 cycles minimum No objectionable change
Alkali Resistance	ASTM D1308 10%, 25% NaOH, 1 hour	No effect	No effect
Salt Spray Resistance	ASTM B117 5% salt fog @ 95° F (35° C)	None or few #8 blisters; > 1/16" scribe creep average Passes 4,000 hours	None or few #8 blisters; > 1/16" scribe creep average Passes 1,000 hours
Humidity Resistance	ASTM D714, ASTM D2247, 100% relative humidity @ 95° F (35° C)	Passes 4,000 hours No #8 blisters	Passes 1,500 hours No #8 blisters
Exterior Exposure	ASTM D2244, ASTM D4214 10 Years @ 45°, South Florida	Maximum 5 fade Maximum 8 chalk	Maximum 5 fade Maximum 8 chalk

¹ Coated steel includes G90 hot-dip galvanized, *Galfan*, *Galvalume* and *Zincalume* substrates.

² Fracturing or rupturing of substrate will rupture coatings. Heavy-gauge and clad steel substrates impose limitations on formability. *Duranar* coatings are generally flexible beyond the point of substrate rupture.

Shown:

432 Park Avenue
New York, NY
Photos by Tom Kessler

Bridgeport Active Healthcare
Toronto, ON
Photo by Tom Arban

Nemours / Alfred I. DuPont
Hospital for Children
Wilmington, DE
Photos by Tom Kessler

Via 57 West
New York, NY
Photos by Tom Kessler

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