



ELITE[®] PVDF

SOLID COLOR, MICA, AND METALLIC COIL COATINGS



TITAN
COATINGS



APPLICATION BENEFITS

- High application line speeds without edge blistering
- Exceptional flow and leveling

UNIQUE BENEFITS

- Superior scratch and abrasion resistance
- PFAS Free
- AAMA 2605
- Long-term durability
- Excellent resistance to chalk and color fade
- Outstanding corrosion and chemical resistance
- Excellent flexibility helps with rigorous post-forming operations
- Excellent intercoat adhesion between primer and top-coat

SUGGESTED END USES

- Monumental buildings
- Building panels
- High-end storefronts
- Roof panels

THE ULTIMATE IN EXTERIOR WEATHERABILITY

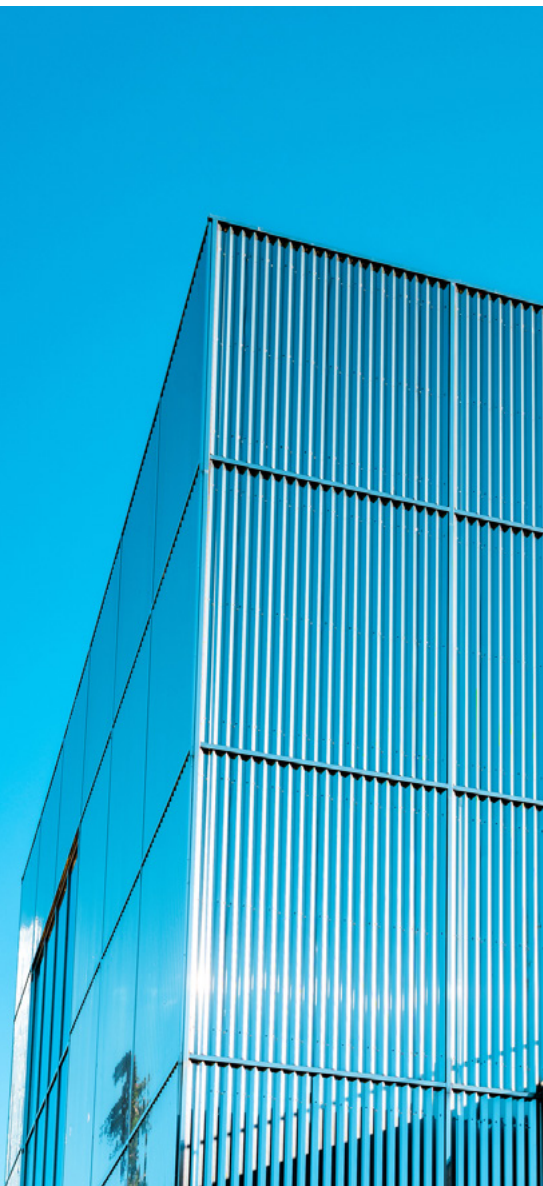
Proven to be the gold standard for exterior durability, PVDF coatings are specified to protect monumental buildings and all high-end architectural products where the highest weathering performance is demanded. Titan's Elite PVDF liquid coatings are formulated with 70% PVDF (polyvinylidene fluoride) combined with our proprietary high performance acrylic resin and the highest-grade COOL ROOF ceramic pigment technologies. We proudly utilize Hylar® 5000S PVDF, manufactured by Syensqo, here in the U.S.A. Our ultra durable acrylic provides excellent scratch, mar and abrasion resistance. The high-performance formulations are available in a two-coat system with our SuperPrime corrosion-inhibitive primer and a durable fluoropolymer color coat or a three-coat system with a clearcoat layer for enhanced protection.

Elite PVDF coatings provide exceptional resistance to color fading, acid rain, ultraviolet rays, chipping and peeling. They meet or exceed FGIA/AAMA 2605 performance specifications for aluminum and are approved for use on properly cleaned and treated aluminum and coated steel products, including G90 hot-dipped galvanized, GALFAN®, GALVALUME® and ZINCALUME®, ZAM®, and Stainless-Steel substrates.

Additionally, Elite PVDF coatings are PFAS free.

Elite PVDF coatings are produced in solid colors, brilliant micas and dynamic metallics, with options for custom colors. Elite PVDF coatings may be applied over the universal SuperPrime Urethane Primer or our SuperPrime Coastal high-build Urethane Primer for extreme industrial or coastal environments.





ELITE PVDF COIL COATING PRODUCTS

Elite PVDF Solid Color Coil Coating System

When it comes to architectural design, color matters. So does performance. That is why architects and commercial building owners can count on Elite PVDF coil coatings to protect and beautify their metal buildings in challenging climates around the world. Titan offers an extensive range of color formulations, each designed to provide the desired balance of cost, aesthetics and performance.

Elite PVDF SHIMMER® Mica-Effect Coil Coating System

Elite PVDF Shimmer coating systems feature the same two-coat application as conventional Elite PVDF 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. Elite PVDF Shimmer coatings can also be formulated with Titan's proprietary COOL ROOF Infrared Reflective (IR) coating technology to help make buildings cooler, more comfortable and more energy-efficient.

Elite PVDF Coastal System

Elite PVDF Coastal system offers added protection on metal roofs, wall panels and architectural components in difficult seacoast and industrial environments. Utilizing our SuperPrime Coastal High Film primer, this system provides exceptional protection in the harshest coastal and industrial environments. A clear topcoat can be utilized over the color coat to further enhance protection against atmospheric pollutants and harsh U.V. rays. The overall film thickness creates a system with outstanding barrier protection, corrosion resistance, chemical resistance and toughness.

Elite PVDF Ultra-Matte

Elite PVDF Ultra-Matte system is an ultra-low gloss low-sheen PVDF system which significantly reduces light reflectance and minimizes light glare. Elite PVDF Ultra-Matte offers a visually appealing finish, while providing superior abrasion and outstanding exterior durability.



ELITE[®] PVDF

SOLID COLOR, MICA, AND METALLIC COIL COATINGS

TECHNICAL DATA

SPECIFICATIONS	TEST STANDARD	ALUMINUM SUBSTRATE	COATED STEEL SUBSTRATE
Dry Film Thickness (Nominal)	ASTM D1400	0.15-.30 mil primer 0.70-.80 mil color 0.30- 0.50 mil clear topcoat	0.15-.30 mil primer 0.70-.80 mil color 0.30- 0.50 mil clear topcoat
Gloss	ASTM D523 Standard @ 60° Low gloss @ 85°	25-35 <10	25-35 <10
Solar Reflectance	ASTM E903, ASTM E1918 using portable reflectometer	0.25 (25%) min.	0.25 (25%) min.
Pencil Hardness	ASTM D3363	F-2H	F-2H
Flexibility (T-Bend)	ASTM D4145	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
Acid Resistance	ASTM D1308 10% muriatic acid - 24 hrs. 20% sulfuric acid - 18 hrs.	No effect	No effect
Acid Rain Test	Kesternich SO ₂ , DIN 50018	15 cycles minimum No objectionable changes	15 cycles minimum No objectionable changes
Alkali Resistance	ASTM D1308 10%, 20% NaOH, 1hr.	No effect	No effect
Salt Spray Resistance	ASTM B117 5% salt fog @ 95° F	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	Passes 4,000 hours No #8 blisters	Passes 4,000 hours No #8 blisters
Exterior Exposure	ASTM D2244, ASTM D4214 20 Years @ 45°, South Florida	Max. 5 fade Max. 8 chalk	Max. 5 fade Max. 8 chalk
Water Immersion	ASTM D870	No loss of Adhesion	No loss of Adhesion
Flame Spread	ASTM E84	Class 1-Flame Spread Index: 0	Class 1-Flame Spread Index: 0
Falling Sand	ASTM D968	80-100 L/ML	80-100 L/ML

