



PVDF COATING

by Pioneer Coats



Coating Excellence, Delivering Trust

www.pioneercoats.com



PIONEER COATS



About Us.

Introduction

Pioneer Coats, a trusted name in PVDF Coating, Powder Coating, Anodizing & Wood Finishing brings world-class architectural coating solutions to India. Since its inception in year, Pioneer Coats has been a key player in the coating application industry. All coatings are applied at our state-of-the-art, ISO 9001:2015-certified facilities, meeting the highest international standards of quality and performance.

WHAT WE OFFER

PIONEER COATS stands at the forefront of surface finishing solutions, proudly recognized as a trusted name in Anodizing, Powder coating, PVDF Coating and Wood finish coating. With a commitment to innovation, quality, and customer satisfaction, we bring precision and perfection to every project we undertake.

We specialize in enhancing the durability, aesthetic appeal, and performance of metal surfaces across a wide range of applications. Our team combines years of expertise with state-of-the-art technology to deliver finishing services that meet the highest industry standards. Our services cater to architectural, industrial, and decorative needs and confidence in every coat.

We don't just coat—we give surfaces a glow-up!

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Vision, Mission & Core Values



VISION

Driven by a bold vision and uncompromising precision, we are committed to setting new standards in surface finishing. Our goal is to deliver enduring excellence that not only protects but elevates the performance and appearance of every component we treat.

MISSION

Committed to coating innovation, we specialize in delivering advanced finishes that go beyond surface appeal. Our coatings are engineered to perform under pressure, protect against the elements, and inspire lasting confidence in every application.



CORE VALUES

Committed to coating innovation, we specialize in delivering advanced finishes that go beyond surface appeal. Our coatings are engineered to perform under pressure, protect against the elements, and inspire lasting confidence in every application.

Why Choose us?

At Pioneer Coats, we don't just apply coatings — we transform surfaces with craftsmanship, care, and cutting-edge technology.

Customer-First Philosophy

We listen, collaborate, and deliver with your satisfaction in mind. From concept to completion, our service is transparent and responsive.



Innovation-Driven Approach

We embrace continuous innovation to stay ahead of industry trends, offering modern coating solutions that elevate both function and form.



Unmatched Expertise

With years of hands-on experience and industry knowledge, our skilled team ensures flawless execution across every project—from delicate architectural finishes to industrial-grade protections.





Quality Commitment

Each finish we apply is tested for durability, appearance, performance, ensuring long-lasting protection and enhanced lifespan, we use advanced techniques to maintain consistency.

State-of-the-Art Technology

Our facility is equipped with advanced tools and machinery that ensure consistency, accuracy, and excellence in every layer.



Diverse Coating Capabilities

From precise anodizing to bold powder coating and warm wood finishes, we offer a complete range of surface solutions tailored to your needs.

PVDF Coating



Gloss Boss: PVDF Coating That Laughs in the Face of Rust!

At Pioneer Coats, we offer advanced PVDF Coating Services designed to deliver long-lasting, high-performance protection for your metal surfaces. PVDF (Polyvinylidene Fluoride) Coating is a premium fluoropolymer finish known for its exceptional resistance to UV rays, chemicals, corrosion, and weathering—making it ideal for both indoor and outdoor applications. Whether you're in the Architectural, Automotive, Industrial, or Furniture sectors, our PVDF Coatings ensure unmatched durability and a sleek, professional finish that stands the test of time. PVDF is also Environmentally Friendly, low maintenance, and retains its color and gloss even under the harshest conditions—making it a superior choice over conventional paints.

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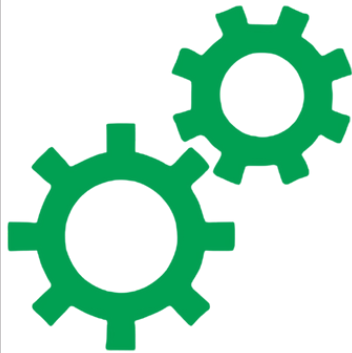
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Why PVDF Coating Matters ?

Extreme Weather Warrior

PVDF Coating offers unbeatable resistance to UV rays, humidity, rain, and harsh environmental conditions—keeping metal surfaces vibrant and corrosion-free for decades.



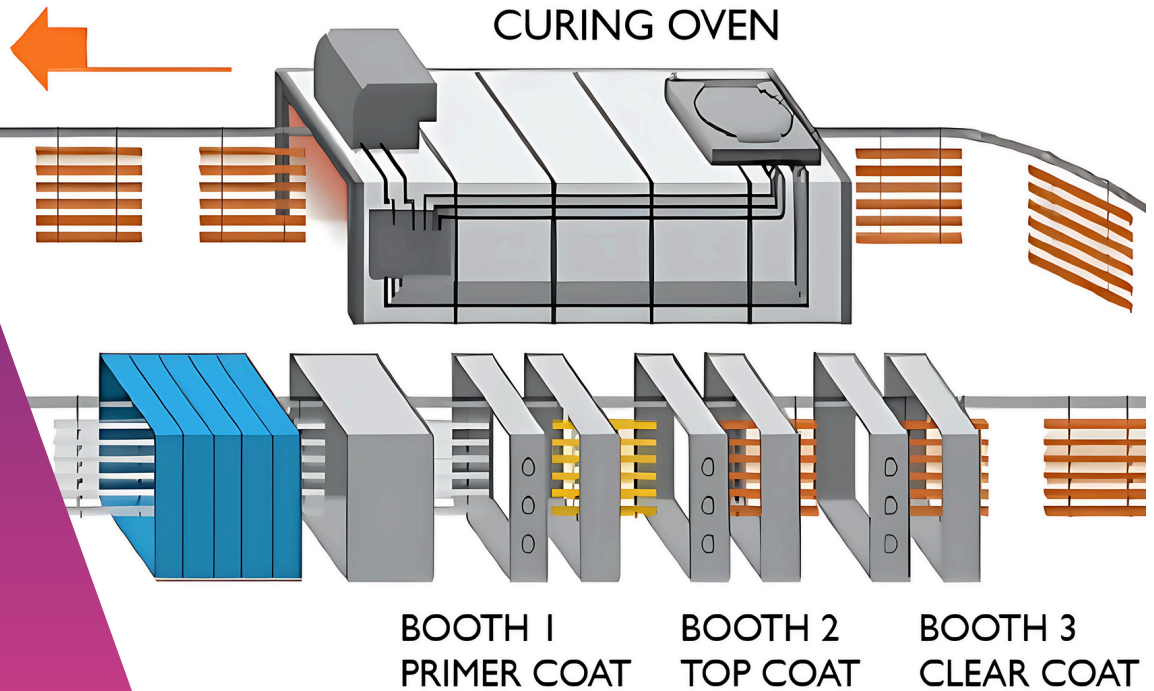
Long-Lasting Aesthetic Appeal

With outstanding color retention and gloss durability, PVDF-coated surfaces maintain their aesthetic appeal far longer than traditional paints, even in the toughest outdoor settings.

Low Maintenance, High Performance

PVDF Coatings resist dirt, chemicals, and pollutants, making them incredibly easy to clean and reducing the need for frequent upkeep—saving time and money over the long term.





Our PVDF Coating Process

Discover how we transform metal with precision, durability, and vibrant finishes.

Surface Preparation

The foundation of a durable PVDF coating lies in proper surface preparation. We begin by thoroughly cleaning the metal surface using mechanical or chemical methods such as sandblasting, degreasing, or alkaline washing. This removes contaminants like oil, rust, and debris, ensuring strong adhesion of subsequent coating layers. A properly prepared surface enhances performance, prevents coating failure, and promotes long-lasting protection in all environmental conditions.

Chemical Pre-Treatment

Once cleaned, the metal undergoes chemical pre-treatment using phosphate or chromate-based solutions. This process creates a conversion layer that enhances corrosion resistance and promotes adhesion between the metal substrate and the primer. It also improves the overall lifespan of the coating by strengthening the metal's resistance to oxidation, moisture, and pollutants. This step is critical for structural integrity in both indoor and outdoor applications.

Primer Application

We apply a specially formulated corrosion-resistant primer that serves as the foundation for the PVDF topcoat. The primer improves adhesion, offers an extra layer of corrosion protection, and boosts the durability of the entire coating system. Applied with precision, the primer ensures even coverage and prepares the surface for optimal bonding with the fluoropolymer topcoat. This step is essential for color retention and long-term performance.

PVDF Topcoat Application

The PVDF Coating, typically consisting of 70% fluoropolymer resin, is applied evenly using advanced spray technology. This layer provides exceptional resistance to UV radiation, color fading, chalking, and environmental pollutants. With a wide range of color and gloss options, this step gives the product a premium, aesthetically pleasing look that lasts for decades with minimal maintenance.

Curing & Quality Inspection

Once Coated, the metal is cured at high temperatures to fuse and harden the coating layers. After curing, each piece undergoes a thorough quality inspection to check for uniformity, gloss level, thickness, and any surface defects. Our strict quality control standards ensure that every product meets industry benchmarks for appearance, durability, and long-term performance.



Plant Salient Features

Surface Pre-treatment

9-stage: Degreasing, Etching, Desmutting, Chromating, DI Rinsing.

Drying & Cooling

Hot air oven dries pretreated parts and prevents watermarking.

Spray Coating Booths

Electrostatic/air-assisted spray guns; primer, color coat, optional clear coat.

Curing Oven

180–250°C; 15–30 mins depending on paint system.

Conveyor System

Overhead/floor-mounted with jigs/hooks for aluminum profiles.

Quality Control

DFT, gloss, color match, adhesion, salt spray, and weather tests.

Environmental & Safety

ETP, fume extraction, PPE, and fire safety compliance.

Automation

PLC/SCADA with cycle control, temp logging, and process traceability.

Standards Compliance

Meets AAMA 2605, Qualicoat Class 2, and ISO 2813.

Maximum Section Sizes



Max Section Length: 7.2 mtr.



Max Section Width: 0.3 mtr.

PVDF Production Capacity



Oven Size

L: 70 ft × W: 5 ft × H: 10 ft



Conveyor Oven Speed

0.8 meter / minute



Production Capacity

1200 sq. mtr. / day

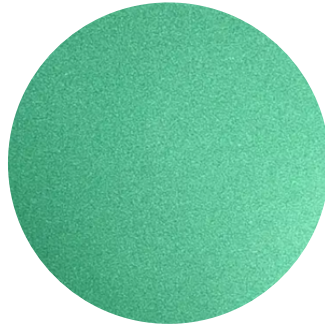
Chart for AAMA2605-05 (PVDF) Standards

| Description | AAMA 2605 (PVDF) |
|-------------------------------|---------------------------------------|
| Pre-treatment system | Multi-stage cleaning system |
| Dry film hardness | 2H – 4H |
| Outdoor exposure | 10 Year South Florida |
| Salt spray resistance | 1000 hrs. steel / 4000 hrs. Aluminium |
| Humidity resistance | 1500 hrs. steel / 4000 hrs. Aluminium |
| Weathering, colour retention | 10 years – fade = 5 delta E |
| Weathering, chalk resistance | 10 Year chalk = 8 |
| Weathering, erosion retention | 10 Year = 10% loss |
| Cost | High |
| Aesthetic appeal for solid | Excellent |
| Aesthetic appeal for metallic | Excellent |
| Finish available | Satin |
| Colour available | Any customized shade |
| Maintenance | No or minimum |
| Guarantees | 10–25 years |

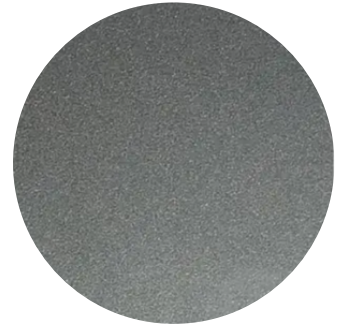
PVDF Colours



Champagne Bronze



Emerald Green



Graphite Grey



Metallic Burgundy



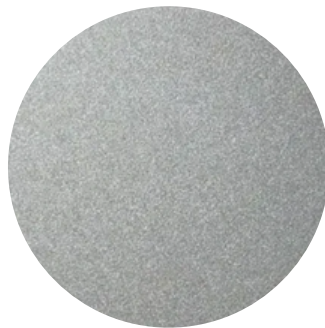
Mirror Gold



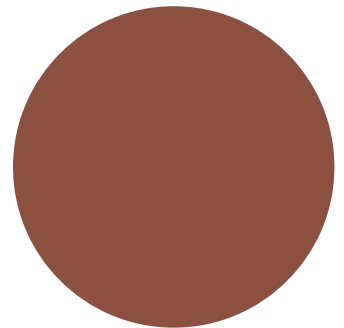
Rose Gold



Sapphire Blue



Silver Sparkle



Territory Red

Disclaimer: Shades and textures are indicative only. Actual finish may vary, please check samples before finalizing.

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OUR BRANCHES



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