



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!

CONTACT US

info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com

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.



Our Services



Anodizing

Anodizing is an electrochemical process that enhances the surface of aluminum by forming a durable, corrosion-resistant oxide layer. It improves the metal's resistance to wear, adds color options, and provides a sleek, metallic finish. Commonly used in architectural, automotive, and consumer products, anodized surfaces are UV-stable, non-peeling, and low-maintenance.



Powder Coating

Powder coating is a dry finishing process where a fine powder is electrostatically applied to a metal surface and then cured under heat to form a durable, protective layer. It offers excellent resistance to corrosion, scratches, and chemicals, making it ideal for both indoor and outdoor applications. Powder coating is available in a wide range of colors, textures, and finishes, like matte, glossy, metallic, and textured.



PVDF Coating

PVDF (polyvinylidene fluoride) coating is a high-performance fluoropolymer finish known for its exceptional durability, UV resistance, and chemical resistance. It provides a long-lasting protective layer, making it ideal for architectural, industrial, and exterior applications, especially in harsh weather conditions. PVDF coatings maintain color and gloss stability over decades and are commonly used on aluminum panels, metal roofing, and facades.



Wood Finishing

At Pioneer Coats, we combine the strength of aluminium with the elegance of wood through our advanced Wood Finish Coating. Designed to replicate natural grain and texture, our coatings deliver a rich, luxurious look with lasting durability. Resistant to UV, moisture, and corrosion, they're perfect for interiors and exteriors—offering a stylish, low-maintenance alternative to natural wood for windows, doors, railings, partitions, ceilings, claddings, and facades.

Anodizing



**Coat It Right:
The Ultimate
Shield for
Your Metals!**

At Pioneer Coats, we offer precision anodizing services designed to enhance the performance, protection, and appearance of your metal components. Our state-of-the-art facility and skilled technicians ensure a high-quality, uniform finish that meets industry standards. From decorative finishes to hard anodizing for industrial use, we serve a wide range of sectors including automotive, aerospace, electronics, and construction. Whether you're looking to improve corrosion resistance, increase surface hardness, or add color and appeal, Pioneer Coats delivers reliable and customized anodizing solutions you can trust.

CONTACT US

info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com

Why Anodizing Matters ?

Enhanced Durability & Corrosion Resistance

Anodizing creates a protective oxide layer that greatly improves a metal's resistance to corrosion, making it perfect for use in challenging environments where durability is critical.

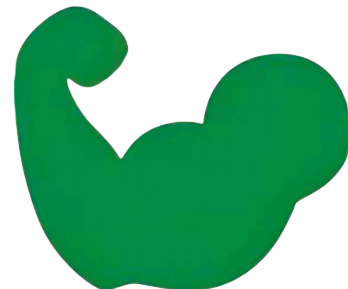


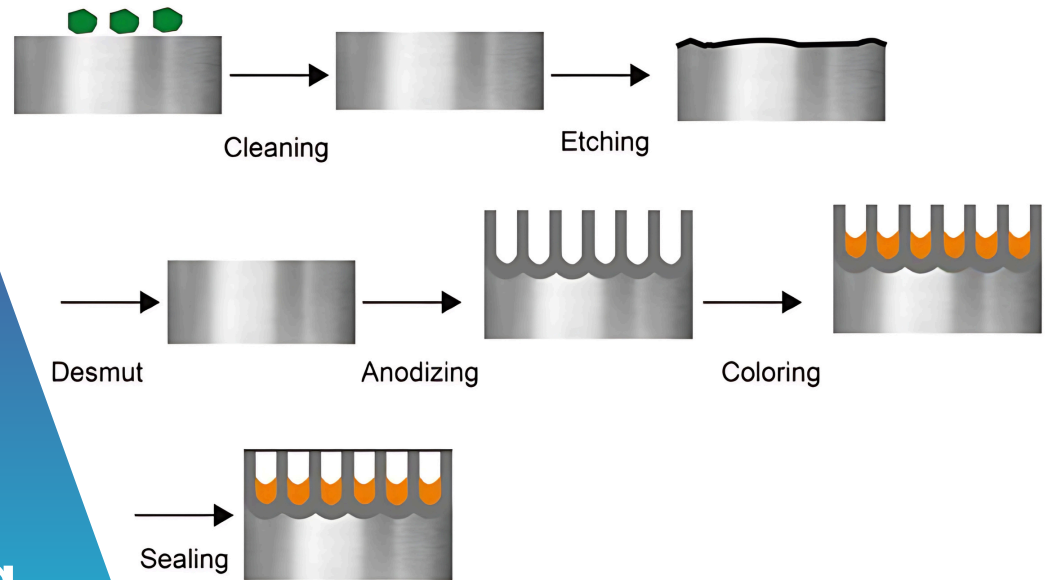
Improved Aesthetic Appeal

The Anodizing process not only enhances the metal's protection but also offers the ability to add vibrant, long-lasting colors, elevating the visual appeal of products in various industries.

Increased Surface Hardness

Anodizing strengthens the surface of metals, making it harder and more resistant to scratches and wear, which is essential for parts subjected to frequent handling or harsh conditions.





Our Anodizing Process

Discover how Anodizing enhances metal with strength, beauty, and lasting protection

Surface Preparation

The Anodizing process begins with comprehensive surface cleaning, which is crucial for ensuring optimal results. We use a combination of chemical cleaning and mechanical abrasion to remove oils, dirt, and any surface impurities. This thorough preparation promotes excellent adhesion, smoothness, and uniformity, ensuring the metal is primed for the anodizing process.

Electrolytic Process

During the electrolytic process, the metal is immersed in an electrolyte bath while an electric current is passed through. This induces an electrochemical reaction, forming a naturally occurring oxide layer on the metal's surface. The thickness and quality of this layer can be controlled precisely, ensuring exceptional protection against corrosion, abrasion, and wear. This process strengthens the metal's surface, extending its lifespan.

Coloring & Dyeing

After Anodizing, we offer coloring options where the anodized metal absorbs high-quality dyes into its porous oxide layer. This step enhances the aesthetic appeal of the metal by adding vibrant colors that are both durable and long-lasting. The dyes are absorbed into the oxide layer, providing a uniform finish that won't peel or fade, making it an ideal choice for applications that require both beauty and resilience.

Sealing

Once the Anodizing and coloring steps are complete, we perform a sealing process to close the pores of the oxide layer. This step locks in the dye, preventing color loss and providing an extra layer of protection against corrosion, scratches, and other environmental factors. The sealed surface is more resistant to fading and ensures that the metal retains its appearance and functionality for an extended period.

Quality Inspection

Our Anodized products undergo rigorous quality inspections to ensure that they meet our high standards. Each item is checked for color consistency, surface uniformity, and coating integrity. We test the durability of the anodized layer, confirming it meets the required specifications for corrosion resistance and abrasion resistance. This attention to detail guarantees that each product is delivered with a high-performance finish that exceeds expectations.



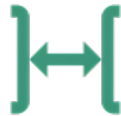
Plant Salient Features

<p>Tank System</p> <p>Multiple tanks: Degreasing, Etching, Desmutting, Anodizing, Coloring, Sealing, and Rinsing, PP acid-resistant material.</p>	<p>Rectifier/Power Supply</p> <p>DC power supply (12V–24V), ripple-free, timer, programmable.</p>	<p>Busbars & Cathodes</p> <p>Conductive aluminum busbars, stainless steel cathodes.</p>
<p>Cooling System</p> <p>Uses chillers and plate heat exchangers; temperature maintained at 15–25°C.</p>	<p>Agitation System</p> <p>Eductors ensure uniform chemical action and heat distribution.</p>	<p>Fume Extraction</p> <p>Acid fume scrubbers for safety and compliance.</p>
<p>Sealing Unit</p> <p>Hot water or nickel acetate sealing tanks.</p>	<p>Automation</p> <p>Optional overhead cranes for material handling.</p>	<p>Energy Efficiency</p> <p>Heat recovery, insulated tanks, and VFDs on pumps/fans.</p>

Maximum Section Sizes



Max Section Length: 7.2 mtr.



Max Section Width: 0.3 mtr.

Anodizing Production Capacity



Tank 01

- > Size: 25 ft × 5 ft × 6 ft
- > Rectifier: 4000 Amp
- > Prod. Cap.: 600 sq. mtr. / day



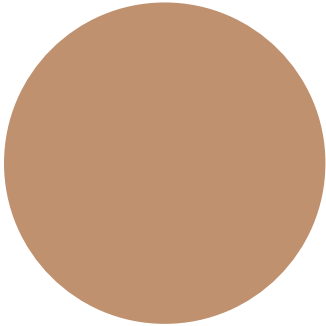
Tank 02

- > Size: 25 ft × 2.5 ft × 6 ft
- > Rectifier: 2000 Amp
- > Prod. Cap.: 400 sq. mtr. / day

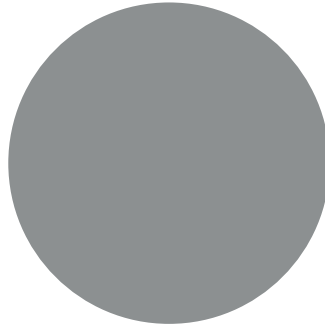
Anodizing Standards We Adhere

South Florida Weathering	CLASS I	CLASS II
End Use	Exterior	Interior or exterior with regular maintenance
Film Thickness	0.7 mils	0.4 mils
Salt Spray Resistance	3000 hours	1000 hours
Color Retention	10 yrs – fade = 5 Delta E	10 yrs – fade = 5 Delta E
Gloss Uniformity	15 unit Variation	15 unit Variation
Hardness	Excellent	Very Good
Gloss Options	4-30	4-30
Effect of Poor Quality Substrate	Significant	Significant
Warranty	5 to 10 years	N/A

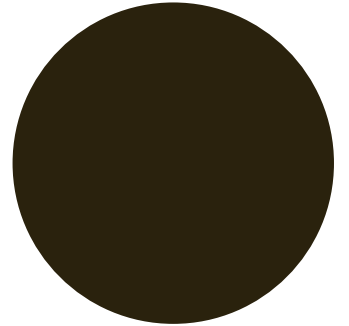
Anodizing Colours



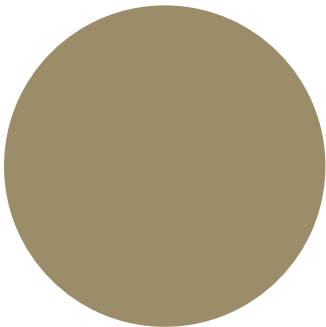
AUBURN



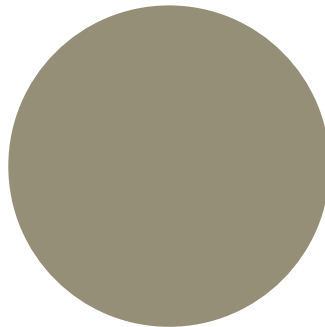
Clear Glass



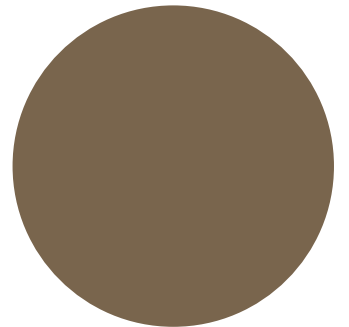
Dark Bronze



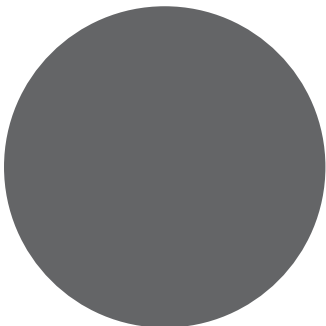
Light Bronze



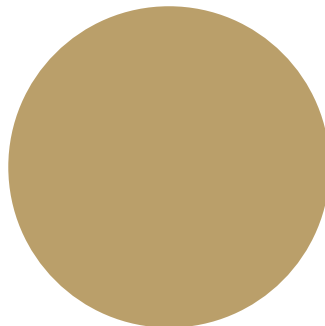
Light Champagne



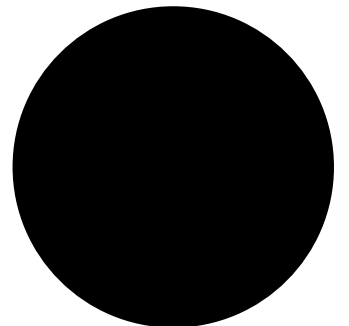
Medium Bronze



Musket Gray



Titanic Gold



Black

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

CONTACT US

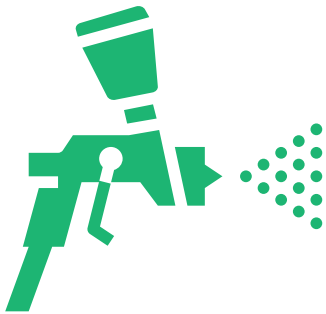
info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com

Powder Coating



**Not Just a Pretty
Coating – It's
Pioneer-Grade
Anodizing**



At Pioneer Coats, we specialize in high-quality Powder Coating services that provide a durable, aesthetically pleasing finish for a wide range of metal products. Powder coating is an environmentally friendly, cost-effective alternative to traditional liquid paints, offering superior protection against scratches, wear, corrosion, and fading. Whether you're in the Automotive, Industrial, Furniture, or Architectural industry, our powder coating solutions ensure that your products look great and last longer.

CONTACT US

info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com

Why Powder Coating Matters ?

Durability & Protection

Powder coating creates a tough, hard finish that is highly resistant to scratches, chips, and wear, providing long-lasting protection for your products in harsh environments.



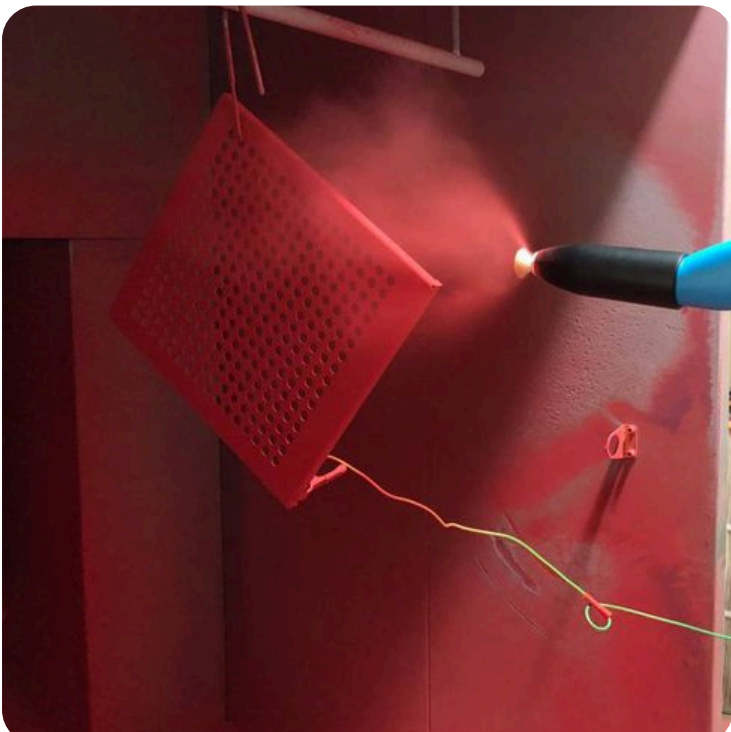
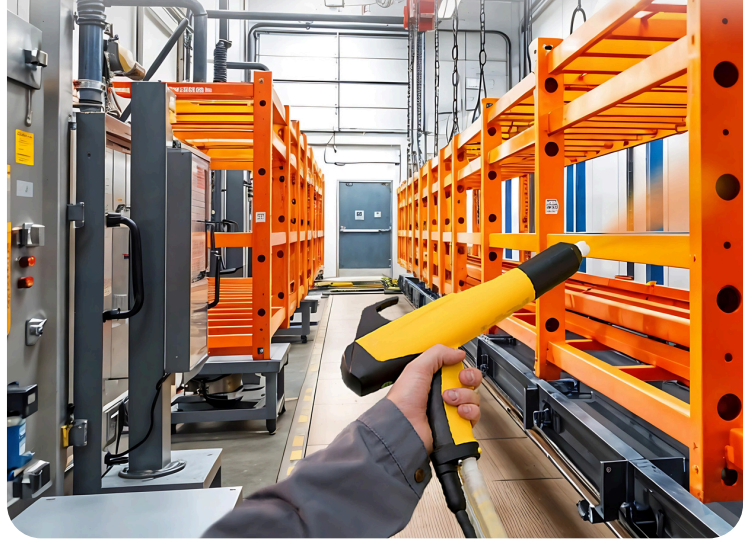
Environmentally Friendly

Unlike traditional paints, powder coating contains no solvents, making it an eco-friendly choice that reduces harmful emissions while still delivering a high-quality finish.

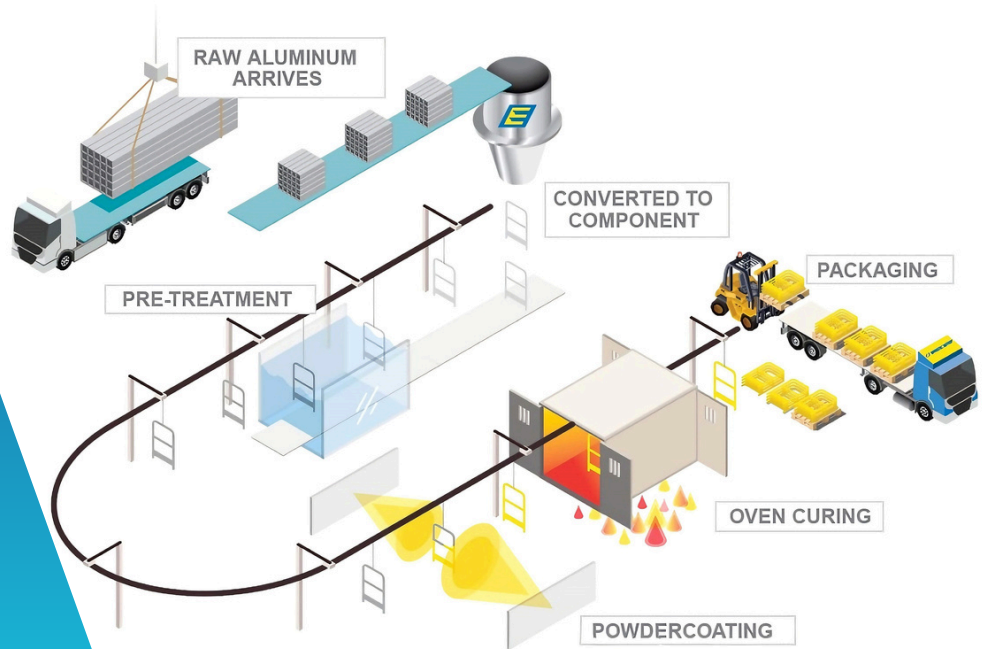
Cost-Effective & Low Maintenance

Powder-coated surfaces require less maintenance due to their durability and resistance to corrosion, saving you money on repairs and replacements over time while maintaining a fresh appearance.





Our Powder Coating process



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

Surface Cleaning

The process begins with meticulous surface preparation, where we remove oils, dust, dirt, and other contaminants from the metal using a combination of chemical treatments and abrasive cleaning techniques. Proper surface preparation is critical, as it ensures optimal bonding of the powder to the metal, preventing defects like peeling or uneven coverage. The metal is then carefully inspected to guarantee that it is perfectly clean and ready for coating.

Powder Application

In the next step, the prepared metal is sprayed with electrostatically charged powder using state-of-the-art spray equipment. The electrostatic charge causes the powder to adhere evenly to the surface of the metal. This application is done with precision to ensure a smooth, consistent coating. The powder used is available in a wide range of colors, textures, and finishes, allowing us to customize the coating based on the specific needs of the client and the intended use of the product.

Curing Process

After the powder is applied, the item is placed in a curing oven, where it is heated to a specific temperature to allow the powder to melt, fuse, and form a hard, durable finish. The curing process typically lasts between 10 to 20 minutes, depending on the type of metal and powder used. The result is a strong, uniform coating that bonds permanently to the metal surface, creating a protective barrier that is highly resistant to wear, corrosion, and fading.

Quality Inspection

After the curing process, the product is allowed to cool down to room temperature. Once cooled, it undergoes a thorough quality inspection. We examine the coating for uniformity, ensuring there are no defects such as runs, sags, pinholes, or inconsistent coverage. Adhesion tests are also performed to confirm that the powder has bonded correctly with the metal surface. Only those items that meet our rigorous quality standards move forward to the final stage.

Final Touches & Packaging

Once the coating has passed inspection, any final touch-ups are made to ensure the product looks flawless. This includes smoothing edges or removing any excess powder. After the finishing touches are completed, the coated products are carefully packaged to prevent damage during transport. Our powder-coated products are now ready for use, offering long-lasting protection and an attractive, high-quality finish that meets both aesthetic and functional needs.



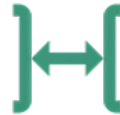
Plant Salient Features

<p>Pre-Treatment System</p> <p>Dip-type 9-tank process: Degreasing, Rinse (1), Deoxidizing, Rinse (3), Chromating, Final Rinse (DM/RO).</p>	<p>Drying Oven</p> <p>Operates at ~100–120°C with insulation and air circulation.</p>	<p>Powder Coating Booth</p> <p>Manual/automatic (reciprocators, electrostatic guns), anti-static floor, ventilation, quick color change.</p>
<p>Curing Oven</p> <p>180–250°C; 15–20 mins; batch or conveyor; PLC-controlled.</p>	<p>Conveyor System</p> <p>Overhead (Power & Free), continuous or indexing, matched to load.</p>	<p>Powder Recovery</p> <p>Cyclone separator + cartridge filter; up to 98% reuse.</p>
<p>Control System</p> <p>PLC/SCADA for live monitoring of temp, conveyor speed.</p>	<p>Environmental & Safety</p> <p>ETP for pretreatment waste, fume control, fire safety & PPE.</p>	<p>Energy Efficiency</p> <p>Heat recovery systems, insulated units, and VFDs on motors.</p>

Maximum Section Sizes



Max Section Length: 7.2 mtr.



Max Section Width: 0.3 mtr.

Powder Coating Production Capacity



Oven Size

L: 70 ft × W: 5 ft × H: 10 ft



Conveyor Speed

1 mtr. / min.



Production Capacity

1200 sq. mtr. / day



Batch Oven 1

- > Size: 24 ft × 7 ft × 8 ft
- > Batch Qty. : 20 pcs. / 45 min.
- > Prod. Cap.: 600 sq. mtr. / day



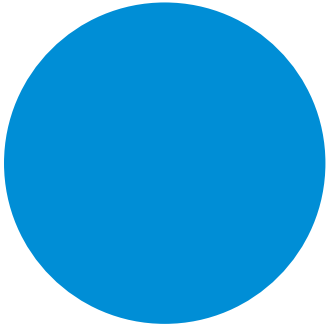
Batch Oven 2

- > Size: 24 ft × 7 ft × 8 ft
- > Batch Qty.: 20 pcs. / 45 min.
- > Prod. Cap.: 600 sq. mtr. / day

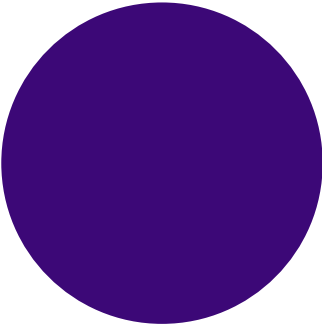
Powder Coating Standards We Adhere

TEST METHOD	TEST	VALUE
ISO 2360	Film Thickness	2.5–3.5 mils (60–80 μm)
ASTM D523	Gloss – 60°	80–95+
ASTM D3359 Method B	Cross Cut Tape test (1 mm Cutting Distance)	5B
ASTM D522	Mandrel Bending Test (Cracking Of Coating)	$\leq 1/8$ inch (≤ 3 mm)
ASTM D2794	Ball Impact Test (Cracking Of Coating)	80 in/lb
ASTM D3363	Pencil Hardness	2H minimum
ASTM D2247	Determination Of Resistance To Humidity (1,000 hours)	Max Undercutting 1/8 inch (3 mm), No Blistering
ASTM B117	Salt Spray Resistance (1,000 hours)	Max Undercutting 1/8 inch (3 mm), No Blistering

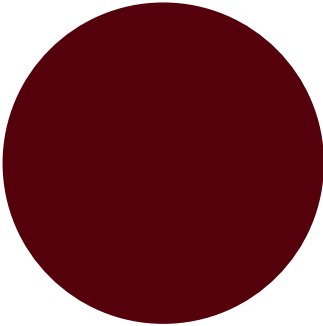
Powder Coating Range



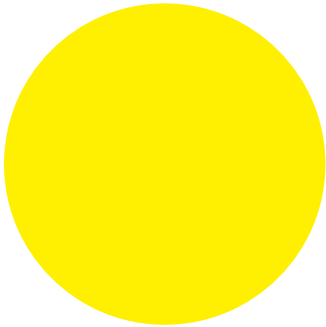
Blaze Blue



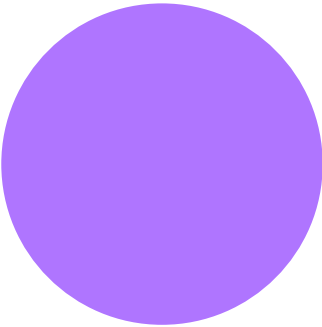
Dark Violet



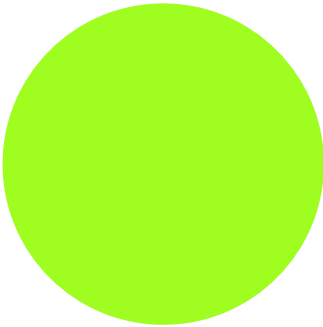
Flame Red



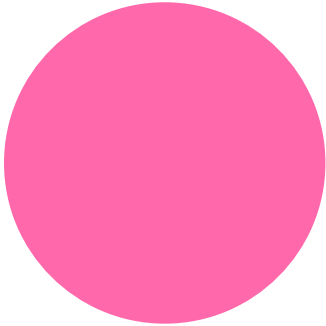
Lemon Yellow



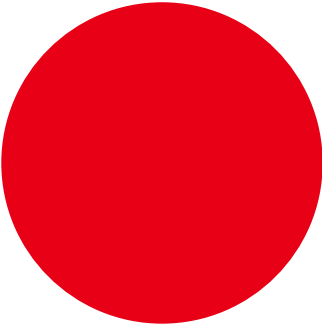
Light Purple



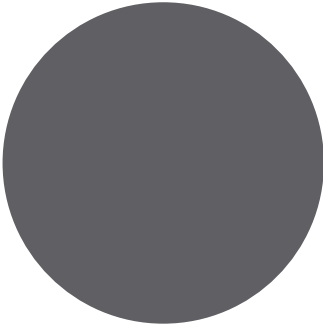
Neon Green



Pink



Red



Dark Grey

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

CONTACT US

info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com

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.

CONTACT US

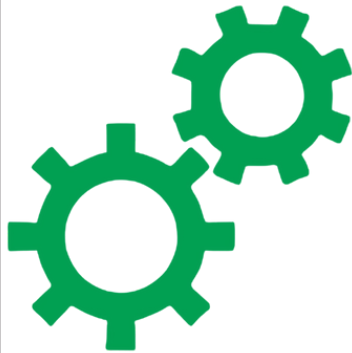
info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com

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.



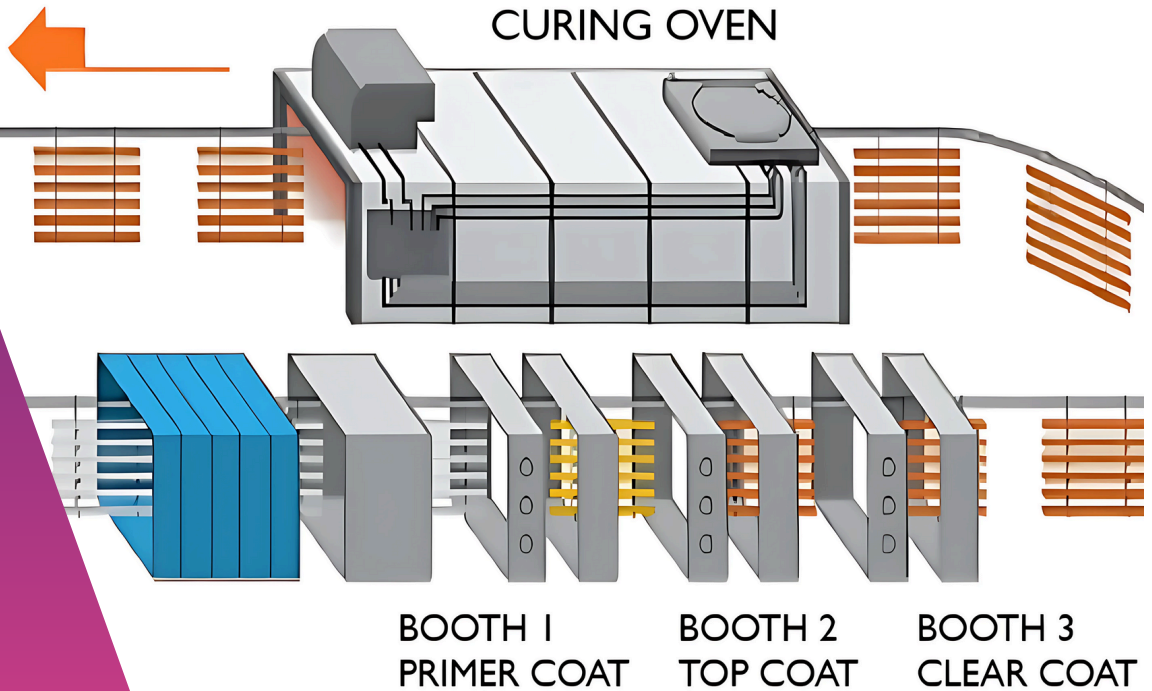
Long-Lasting Aesthetic Appeal

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

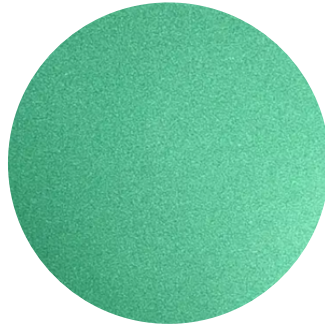
Chart for AAMA2605-05 (PVDF) Standards

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

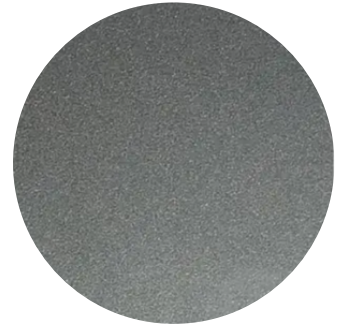
PVDF Colours



Champagne Bronze



Emerald Green



Graphite Grey



Metallic Burgundy



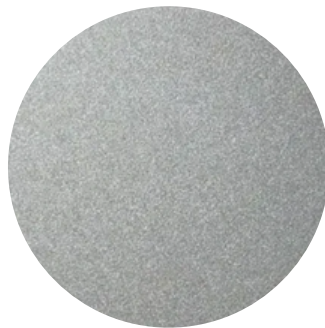
Mirror Gold



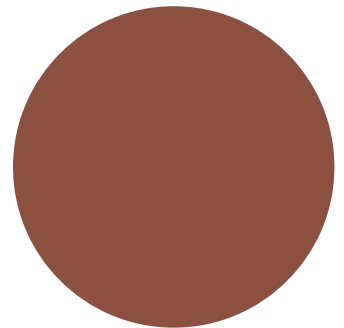
Rose Gold



Sapphire Blue



Silver Sparkle



Territory Red

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

CONTACT US

info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com

Wood Finishing



Wood Finish Coating on Aluminium – by Pioneer Coats

At Pioneer Coats, we seamlessly blend the enduring strength of aluminium with the timeless charm of wood through our innovative Wood Finish Coating technology. Engineered with precision, our coatings replicate the natural grain, color, and texture of real wood—delivering a rich, luxurious appearance that elevates both aesthetics and performance.

Our Wood Coating solutions are more than just visually appealing—they're built to last. Resistant to UV rays, moisture, corrosion, and wear, our finishes maintain their beauty and integrity even in harsh environmental conditions. This makes them ideal for both interior and exterior applications, where both style and resilience are crucial.

Whether you're designing windows, doors, railings, partitions, ceilings, claddings, or façade systems, our wood finish coatings offer a sophisticated alternative to natural wood—without the drawbacks of warping, rotting, or heavy maintenance.

CONTACT US

info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com



Why Wood Finish Matters?

Natural Wood Look, Metal Strength.

Enjoy the aesthetics of natural wood with the structural benefits of aluminium – no warping, rotting, or fading

Weather & UV Resistant

Ideal for both indoor and outdoor applications, our coatings are highly resistant to sunlight, heat, humidity, and rain – maintaining color and finish for years.

Low Maintenance

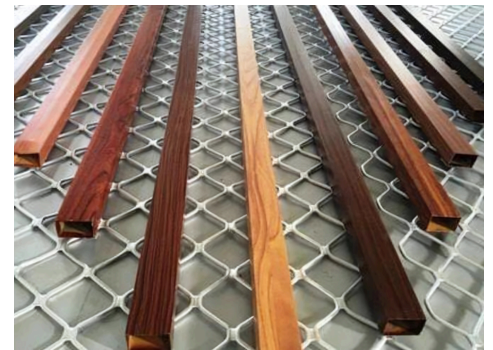
Unlike real wood, our coated aluminium frames require minimal upkeep – no painting, polishing, or sealing needed.

Eco-Friendly Alternative

Our Wood Finish Coating replicates the look of real wood without cutting down a single tree, helping preserve natural forests. The process is sustainable, low-waste, and environmentally responsible—ideal for eco-conscious projects.

Certified Quality

Our Coatings are certified to international standards like Qualicoat and Qualideco, ensuring quality, performance, and longevity.





ALUMINIUM WINDOWS & DOORS



INTERIOR PARTITIONS



BALCONY RAILINGS



CURTAIN WALLS & FACADES



PERGOLAS & LOUVERS



CLADDING PANELS

Our Wood Finish Coating Process

Pretreatment

The aluminium surface is thoroughly cleaned and treated to ensure strong adhesion and corrosion resistance.

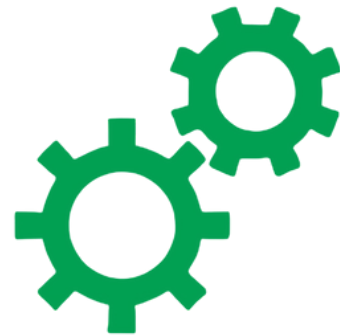


Powder Coating Base Layer

A specially formulated powder is sprayed onto the surface to create a smooth and adhesive base coat – usually in a neutral or wood-compatible color.

Sublimation/Heat Transfer Process

Using sublimation technology, wood grain patterns are transferred onto the coated aluminium using high-temperature vacuum heat. This results in an incredibly realistic wood appearance with depth, texture, and intricate grain lines.



Plant Salient Features

Pre-Treatment

System Includes degreasing, deoxidizing, chromating for strong adhesion.

Powder Coating Booth

Wood-tone base coat application and curing at 180–200°C in a coating booth.

Sublimation Process

Heat-transfer film (wood grain) using vacuum/pressure application.

Sublimation Oven

160–200°C for 10–15 mins; ink turns to gas and penetrates base.

Film Types

Thermal transfer PET films (oak, teak, walnut, cherry, etc.).

Final Curing & Cooling

Post-sublimation curing and cooling chamber to stabilize parts.

Handling System

Automatic conveyors, customized jigs, and linear/U layouts.

Quality Control

Visual, adhesion (crosshatch), gloss, color, and UV/weather testing.

Environmental & Safety

ETP, dust/fume extraction, and non-chrome and VOC-free materials.

Maximum Section Sizes



Max Section Length: 7.2 mtr.



Max Section Width: 0.3 mtr.

Plant Production Capacity



Oven Size

L: 27 ft × W: 7 ft × H: 7.5 ft



Batch Quantity

24 pieces per 30 minutes



Production Capacity

500 sq. mtr. / day

Performance Characteristics of Wood Coating Films

Film Properties	Method	Observations
Impact Strength	ASTMD-2794-69	40 Kg-Cm @ 60 μ
Pencil Hardness	ASTMD-3363	H
Adhesion	ASTMD-3359	GT-0
Gloss at 60° Head	ASTMD-523	Visually
External Appearance	VISUAL	Smooth & Texture
QUV Accelerated Weathering	ASTM-G-154	500 hours
Test (QUV A-340)		500 hours
Packing		Double Polythene Bags and outer side

Check Out Nature's Touch on Metal



Cedar Brown



Golden Pine



Light Oak



Natural Pine



Red Mahogany



Teak Wood



Walnut Brown



Weathered Grey Oak



Golden Walnut

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

CONTACT US

info@pioneercoats.com
pioneercoats@gmail.com

9867368650/9820196600
www.pioneercoats.com



PIONEER COATS



+91 9867368650
+91 9820196600



www.pioneercoats.com



info@pioneercoats.com
pioneercoats@gmail.com

OUR BRANCHES



Raigad Branch

V-9, MIDC, Near IGPL,
Taloja, Dist. Raigad,
Pin- 401208



Thane Branch

Bldg No. 200, Godown No. 7 & 8,
Indian Corporation Compound,
Mankoli, Gundavali , Bhiwandi,
Thane - 421302



Mumbai Branch

Unit No. 6 & 7, Nirmal Cmpd.,
Near V. K. Ind. Estate,
10-Pais Street,Byculla(W),
Mumbai-400011

