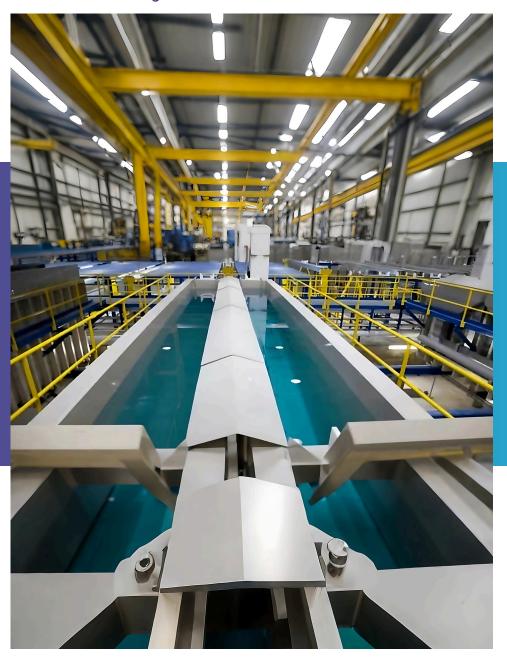


## ANODIZING

by Pioneer Coats



Coating Excellence, Delivering Trust

www.pioneercoats.com



## 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!

# 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.

### **Anodizing**



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.

Shield for

**Your Metals!** 

## 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.





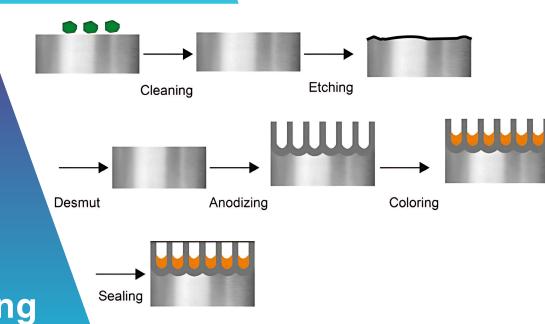
#### **Improved Aesthetic Appeal**

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**

#### Tank System

Multiple tanks: Degreasing, Etching, Desmutting, Anodizing, Coloring, Sealing, and Rinsing, PP acid-resistant material.

#### **Rectifier/Power Supply**

DC power supply (12V-24V), ripple-free, timer, programmable.

#### **Busbars & Cathodes**

Conductive aluminum busbars, stainless steel cathodes.

#### **Cooling System**

Uses chillers and plate heat exchangers; temperature maintained at 15–25°C.

#### **Agitation System**

Eductors ensure uniform chemical action and heat distribution.

#### **Fume Extraction**

Acid fume scrubbers for safety and compliance.

#### Sealing Unit

Hot water or nickel acetate sealing

#### **Automation**

Optional overhead cranes for material handling.

#### **Energy Efficiency**

Heat recovery, insulated tanks, and VFDs on pumps/fans.

#### **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 ftRectifier: 4000 Amp

> Prod. Cap.: 600 sq. mtr. / day



#### Tank 02

Size: 25 ft × 2.5 ft × 6 ftRectifier: 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**



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





+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

