Company Profile

noor GROUP

Electroplating | Galvanizing | Zinc Flake Coating

Aviation | Electrical | Automobile | Construction

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INTRODUCTION

Noor Group's Noor Coating Enterprises is a pioneering force in the world of surface protection and enhancement. Established with a commitment to innovation, excellence, and sustainability, we have emerged as a trusted partner for businesses seeking high-quality coatings and surface treatments.

Our Expertise With decades of experience and a team of highly skilled professionals, we specialize in a wide range of coating applications. From corrosion-resistant coatings for industrial equipment to decorative finishes for architectural projects, Noor Coating Enterprises has the expertise to deliver results that exceed expectations.

Key Areas of Focus

1. **Industrial Coatings.**
2. **Architectural Finishes.**
3. **Automotive Coatings.**
4. **Customized Solutions.**
5. **Sustainability.**
6. **Quality Assurance.**
7. **Client-Centric Approach.**

OUR SERVICES

01 Zinc Electroplating

02 Zinc Iron Electroplating

03 Zinc Aluminium Flake Coating

04 Zinc Nickel Plating

05 Tin Plating

06 Copper Plating

07 Nickel Plating

08 ENP – Electroless Nickel Plating

09 Phosphating

10 Blackodizing

11 Hot-Dip Galvanizing

12 CED Coating

Zinc Electroplating

Zinc plating is identical to electro-galvanizing in principle because both are electro-deposition processes. However, zinc plating is used on small parts such as fasteners, crank handles, springs and other hardware items rather than sheet metal.

Availability: Blue, Yellow, Olive Green, black, White.

Applications: Automobile, Electrical, Standard hardware, internal steel components.

Specifications: IS 1573 / ASTM B633 / ISO 2081.

Coating Thickness: 8µ to 25µ.

Salt Spray Life: 96 hours white rust & 150 hours red rust.

Zinc Iron Alloy

Zinc Iron Plating was developed as an alternative to cadmium. The process produces deposits containing 0.5-1.0% iron with the balance being zinc.
It provide enhanced corrosion protection, weldability, and good ductility. Zinc Iron Plating chemistries can be adjusted to improve adhesion of electroplating on formed steel components. Chromate conversion coatings, post treatment sealers or electrodeposition paints can be added to increase the longevity of the finish.

Salt Spray Life

96 hours white rust

480 hours red rust

Availability: Blue, Yellow, Olive Green, black, White.

Applications: Automobile, Electrical, Standard hardware, internal steel components.

Specifications: IS 1573 / ASTM B633 / ISO 2081.

Coating Thickness: 8µ to 25µ.

Zinc – Aluminium Flake

Zinc flake coatings are non-electrolytically applied coatings, which provide good protection against corrosion. These coatings consist of a mixture of zinc and aluminium flakes, which are bonded together by an inorganic matrix.
The specifications ISO 10683 sets out the requirements for zinc flake coatings for threaded fasteners and EN 13858 describes the requirements for zinc flake coatings for fasteners with no thread and for other parts as well.

Applications: Automobile, Electrical, Standard hardware, internal steel components.

Specifications: ASTM B117 / ISO 10683.

Coating Thickness: 8µ to 25µ.

Salt Spray Life

250 hours white rust

1500 hours red rust

Availability: Matte Gray & Matte Black.

Zinc – Nickel Alloy

Zinc-Nickel is a high performance coating that offers exceptional corrosion resistance particularly for parts used in harsh environments. Alloying Nickel with Zinc creates a unique composition that will corrode slower than zinc alone.
In zinc-nickel alloy plating the proportion of zinc & nickel is around 13% to 14% nickel and the balance is zinc.

Applications: Automobile, Aerospace, Electrical, Standard hardware, internal steel components with higher corrosion protection requirement.

Specifications: ASTM B633 & B841 / ISO 15726 ISO 2081 /IS 1573.

Coating Thickness: 8µ to 25µ.

Salt Spray Life

480 hours white rust

1000 hours red rust

Availability: Clear, Yellow & Black.

Tin Plating

In tin electroplating, the object to be coated is placed into a container containing a solution of one or more tin salts that were dissolved in water. Then an electric current is run through the water, which causes the tin ions to be attracted to a metal object, creating a thin coating of tin.

Applications: Automobile, Electrical, Electronics.

Specifications: IS 1359.

Coating Thickness: 8µ to 12µ.

Advantage

Used to add solderability and electrical conductivity to base metal such as steel, brass, copper.

Availability: Silver finish.

Copper Plating

Copper electroplating is the process of electroplating a layer of copper onto the surface of a metal object. Copper is used both as a standalone coating and as an undercoat onto which other metals are subsequently plated.

Applications: Electrical, Automobile, Thermal.

Specifications: IS 1772.

Coating Thickness: 8µ to 12µ.

Advantage

Used for providing better electrical conductivity and heat transfer.

Availability: Copper Red.

Nickel Plating

Nickel electroplating is a process of depositing nickel onto a metal part. Parts to be plated must be clean and free of dirt, corrosion, and defects before plating can begin. To clean and protect the part during the plating process, a combination of heat treating, cleaning, masking, pickling, and etching may be used.

Applications: Automobile, Electrical, Food industry, Electronics.

Specifications: IS 12393.

Coating Thickness: 8µ to 12µ.

Salt Spray Life

36 hours white rust

72 hours red rust

Availability: Stainless Steel finish.

ENP – Electroless Nickel Plating

Electroless Nickel Plating (ENP) is the deposit of a nickel-alloy coating by chemical reduction – without the electric current that's used in electroplating processes.

Applications: Aerospace, Rotors and shafts, Valves, Furniture, Electronics.

Specifications: IS 13677, ASTM B733.

Coating Thickness: 5µ to 40µ.

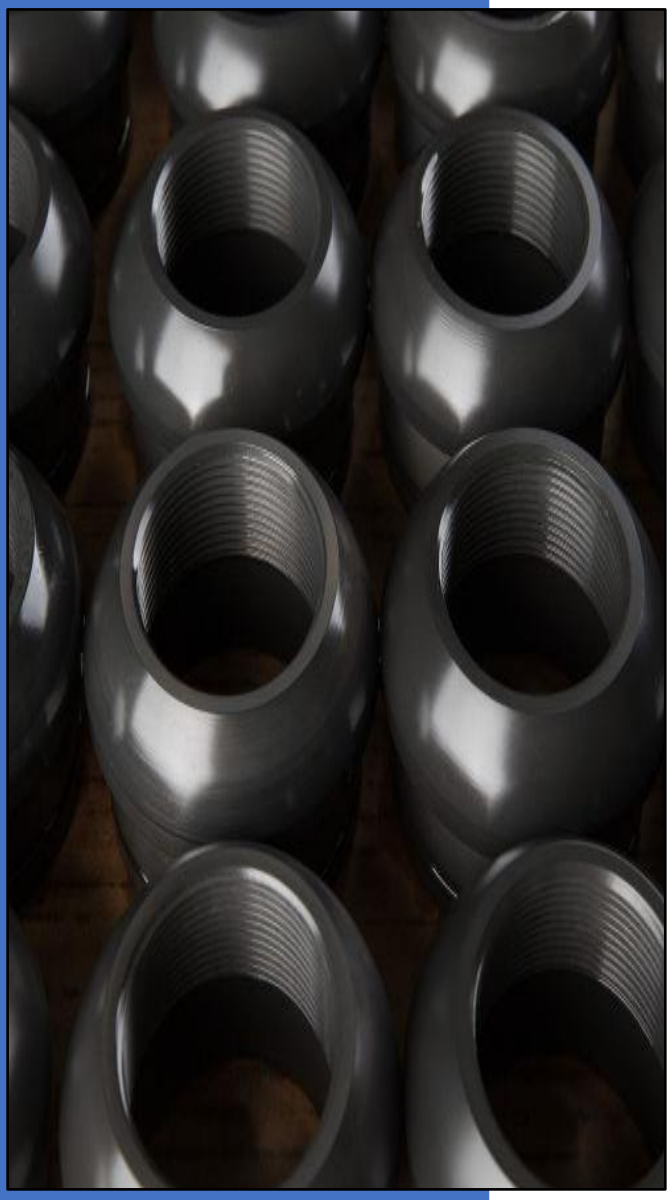
Salt Spray Life

72 hours white rust

240 hours red rust

Availability: LOW MEDIUM and HIGH Phosphorous.

Phosphating



Phosphating is a chemical method of surface treatment in which a metallic surface reacts with an aqueous phosphate solution. This creates a hardly soluble conversion layer made of metal phosphates. For this purpose, the material is first cleaned with acid and then the phosphate layer is formed.

Appearance: Gray Dull Finish.

Applications: Used as a primer for other coatings or in oiled condition in engine and transmission parts.

Specifications: IS 3618.

Coating Thickness: 2µ to 5µ.

Salt Spray Life

8 hours white rust

14 hours red rust

Blackodizing

Chemical Blacking is sometimes referred to as ‘Blackening’ or ‘Blackodizing’ and is a conversion coating meaning that where in other metal finishing processes a layer is added above the substrate, here a coating is achieved through a chemical reaction between the ferrous metal and the oxidizing salts used in the black oxide coating.

Appearance: Black Dull Finish.

Applications: Hardware, Shafts and other components requiring cheaper coating methods which are not critical.

Specifications: IS 13212.

Coating Thickness: 2µ to 5µ.

Salt Spray Life

36 hours white rust

72 hours red rust

Hot-Dip galvanizing

Coating Life

25 years to 50 years

The hot dip galvanizing process is relatively simple. It involves cleaning steel and immersing it in molten zinc to obtain a coating. Hot dip galvanizing is the process of coating iron or steel with a layer of zinc by immersing the metal in a bath of molten zinc at a temperature of around 450 °C (842 °F).

Appearance: Gray Finish.

Applications: Fabrication, Heavy Fabrication, Lighting Poles, Power Sector, Infrastructures, Construction.

Specifications: IS 2629 & 4759 / ASTM A123 / ISO 1461.

Coating Thickness: 66µ to 120µ.

CED Coating

Cathodic Electro Deposition (CED) is a process of coating an object having a conductive surface connected to a circuit as the cathode, by positively charged paint particles suspended in aqueous medium, under direct current1,2. CED coating is most widely used for automobile Components. CED is most advanced and environment friendly water based coating to be done on metal components. A combination of dip and spray ensures reach of paint at every corner of component having intrinsic shape as well.

Coating Life

250 hours white rust

1500 hours red rust

Appearance: Gray & Black.

Applications: Automotive, Electrical.

Coating Thickness: 8µ to 25µ.

VISION

Our vision at Noor Group is to be a global leader and a driving force in the realm of advanced surface technology. We aspire to shape the future by continuously innovating and pioneering breakthroughs in coatings and surface treatments. Our overarching vision encompasses several key aspects:

1.Innovation at the Forefront.

2.Sustainable Excellence.

3.Global Reach.

4.Customer-Centric Approach.

5.Empowering Partnerships.

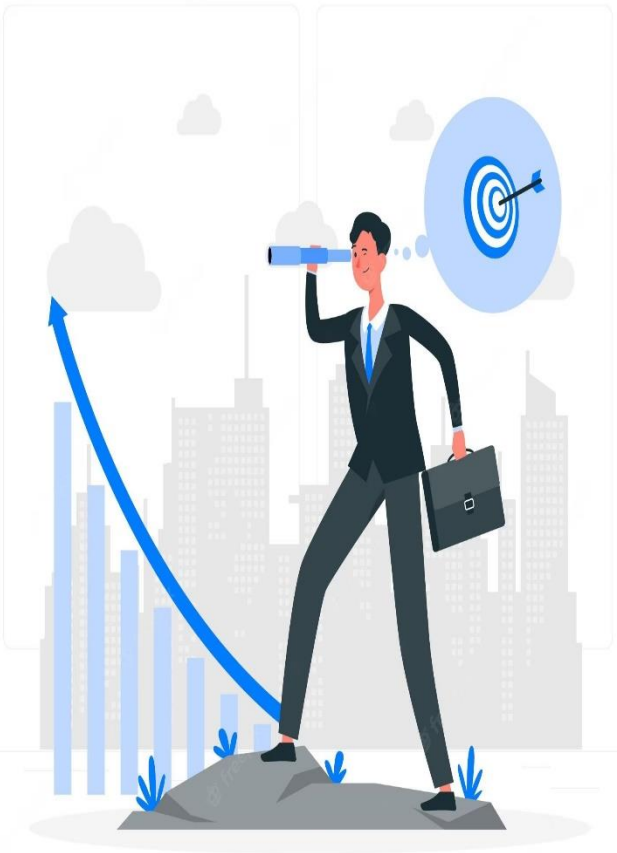
6.Industry Leadership.

7.Employee Development.

8.Continuous Learning.

9.Community Engagement.

10.Excellence Through Quality.



MISSION

Our mission at Noor Group is to revolutionize the world of surface protection and enhancement through a steadfast commitment to innovation, sustainability, and unwavering excellence. Our core mission encompasses several fundamental principles:

1.Innovation Leadership.

2.Sustainable Solutions.

3.Customer-Centric Focus.

4.Global Impact.

5.Continuous Improvement.

6.Quality Assurance.

7.Employee Development.

8.Ethical and Responsible Conduct.

9.Community Engagement.

10.Partnership Building.

THE noor GROUP

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