

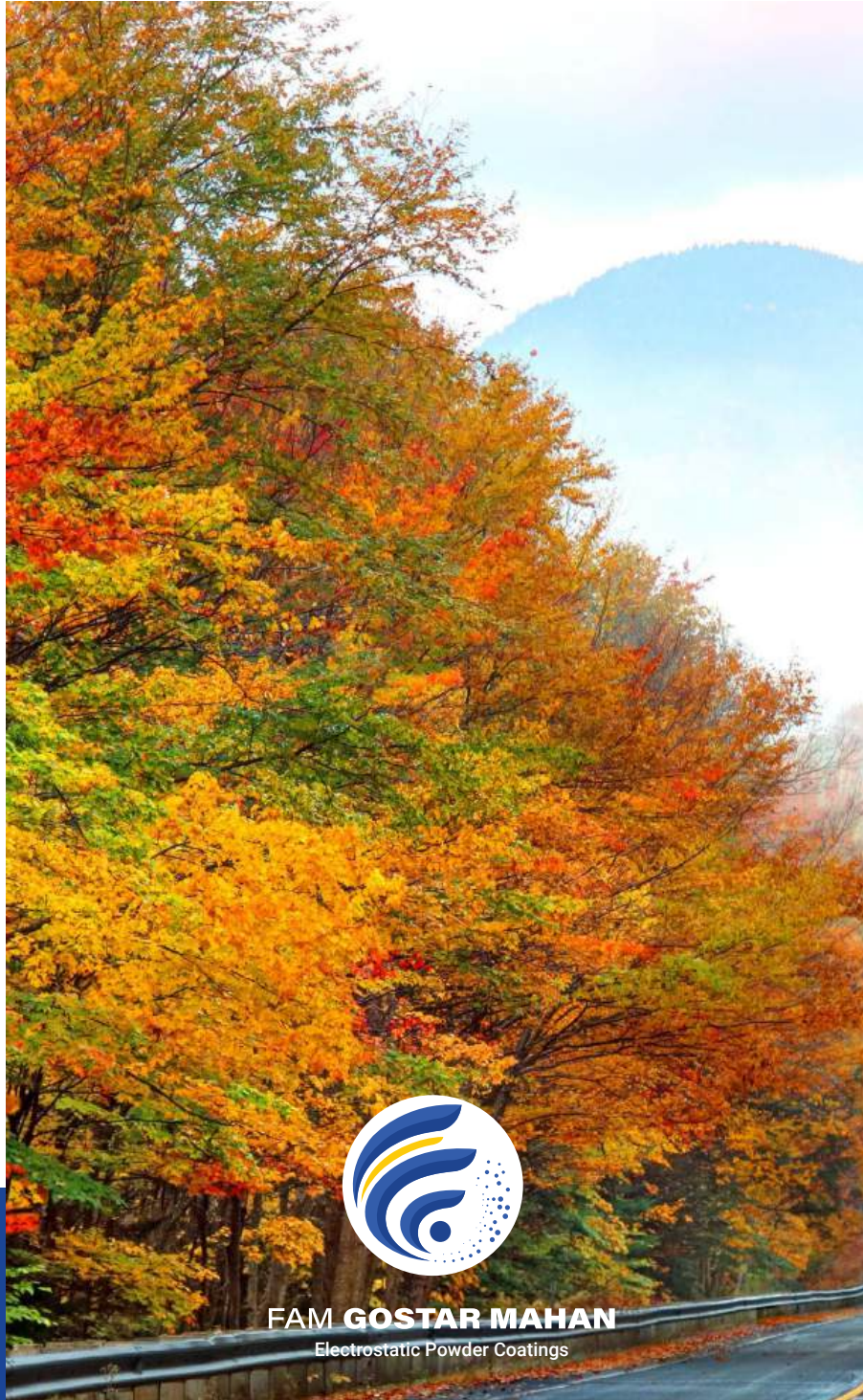


FAM GOSTAR MAHAN

Electrostatic Powder Coatings

PRODUCTS CATALOG

Innovative solutions in powder and liquid paint technology



FAM GOSTAR MAHAN
Electrostatic Powder Coatings

www.famgostarmahan.com

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OUR HISTORY

As a knowledge-based enterprise, Fam Gostar Mahan focuses on continuous Research and Development (R&D) to manufacture electrostatic powder coatings and advanced industrial surface treatments. Our objective is to deliver solutions that not only meet current market demands but also define new standards in durability, performance, and sustainability.

Nanotechnology & FBE: Advanced coatings offering maximum chemical and thermal resistance for the harshest industrial environments.

Integrated Quality Control: Reference laboratory (independent and impartial), certified to ISO/IEC 17025; all tests are conducted while maintaining independence, impartiality, and freedom from commercial interests

Customer-Centric Solutions: Providing consultation, technical support, and continuous collaboration as your strategic partner.

FAM GOSTAR MAHAN

Innovative solutions in powder and liquid paint technology



The Evolution and Growth Path of Fam Gostar Mahan

1991

Commenced operations in the production and import of liquid and industrial paints with the establishment of Shaghayegh Avaran Company.

1997

Initiated the import of powder coatings from Turkey and Italy.
Established an R&D team dedicated to the technological advancement of powder coatings.

2004

Foundation of Fam Gostar Mahan.
Recognized as the National Exemplary Entrepreneur.
Transitioned from laboratory scale to full industrial production.
Imported state-of-the-art laboratory equipment and production machinery.



THE SALE IS NOT THE END, BUT THE BEGINNING
OF OUR COMMITMENT.



2006

Achieved Knowledge-Based enterprise status. Overcame critical barriers in the advancement of the powder coating industry.

2011

Commenced production of Fusion Bonded Epoxy (FBE) coatings.

2016

Invented nano-based powder coatings. First knowledge-based technology company in the field of electrostatic powder coating production.

2026

Establishment of Poosheshgaran Felez Barta Mahan Company

CERTIFICATES



FAM **GOSTAR MAHAN**

Electrostatic Powder Coatings

Proudly Made in Iran

PRODUCTS

EPOXY POLYESTER
POLYESTER
PURE EPOXY
FUSION BONDED EPOXY
ZINC-RICH
POLYURETHANE
LOW CURE
TRIBO
UV-CURE
NANO POWDER COATING

01

FAM GOSTAR MAHAN
Electrostatic Powder Coatings

EPOXY-POLYESTER [HYBRID]

An Economical and Reliable Solution for General

Fam Gostar Mahan's Epoxy-Polyester powder coating is an ideal choice for metal parts in indoor environments where aesthetic appearance, high adhesion, and proper durability are essential. By combining the advantages of epoxy and polyester resins, this product creates a uniform, resistant, and cost-effective coating.

Main Advantages:

- Excellent adhesion to metal substrates.
- Appropriate resistance to impact, scratching, and peeling.
- Smooth and uniform surface with adjustable gloss levels.
- High transfer efficiency and reduced production waste.
- Suitable corrosion resistance, particularly for automotive components.

Applications:

Home appliances, office equipment, metal shelving, automotive parts, lighting fixtures, interior decoration, and HVAC systems.



An Economical and Reliable Solution for General

02

FAM GOSTAR MAHAN
Electrostatic Powder Coatings

POLYESTER

Professional Choice for Outdoor Environments and High Weather Resistance

Fam Gostar Mahan's Polyester powder coating is specifically engineered for applications exposed to sunlight, humidity, and varying weather conditions. With high UV resistance, this product prevents discoloration, chalking, loss of gloss, and shade alteration over time.

Main Advantages:

- Excellent resistance to UV radiation and environmental conditions.
- Long-term retention of color, gloss, and aesthetic quality.
- Appropriate mechanical resistance against impact and scratching.
- Uniform coverage and high productivity in production lines.

Applications:

Aluminum profiles, doors and windows, metal facades, urban furniture, outdoor equipment, exterior automotive parts, condensers, and road signage. Fam Gostar Mahan's polyester coatings have achieved high satisfaction levels, particularly within the aluminum industry.

Finishes: Available in Smooth, Leather (Texture), Hammer-tone, Metallic, Sand-tex, Wrinkle, and Granite textures, as well as Gloss, Semi-Gloss, Semi-Matte, Matte, and Super-Matte finishes upon request.



Professional Choice for Outdoor Environments and High Weather Resistance

03

PURE EPOXY

Maximum Chemical Resistance for Harsh Industrial Environments

Fam Gostar Mahan's Pure Epoxy powder coating is an engineered solution for environments requiring the highest levels of chemical, corrosion, and abrasion resistance. Due to its superior adhesion and excellent insulation properties, it is a reliable choice for various industrial applications.

This coating plays a vital role, particularly in industrial valves and cast iron fittings. Cast iron parts are preheated to 180°C before application; the coating then achieves a fast gel time, creating a homogeneous, uniform, and high-thickness layer.

Note: These coatings are also applicable via the Fluidized Bed method and hold the BS6920 certification for contact with potable (drinking) water.

Main Advantages:

- Exceptional resistance to acids, alkalis, and corrosive agents.
- Excellent hardness and durability against abrasion and impact.
- Superior electrical insulation properties for specialized components.
- Effective protection of metal surfaces in severe operational conditions.

Applications:

Oil, gas, and petrochemical valves, industrial valves and fittings, coated rebar (epoxy-coated), automotive underbody parts, electrical equipment, and chemical storage tanks.

Health certificate in contact with drinking water





Maximum Chemical Resistance for Harsh Industrial Environments

FBE (FUSION BONDED EPOXY)

Advanced Corrosion Protection for Pipelines

Fam Gostar Mahan's FBE powder coating is a specialized choice for the long-term protection of steel pipes, fittings, and buried or submerged equipment. By creating a powerful bond with the metal surface, it acts as a durable and impermeable barrier against corrosion. This product is manufactured in accordance with IGS (National Iranian Gas Company) standards and complies with global quality standards.

Main Advantages:

- Superior adhesion to the metal substrate.
- Strong bond between the adhesive and polymer in 3-Layer Polyethylene (3LPE) systems.
- Excellent resistance to Cathodic Disbondment and under-film corrosion.
- High durability against moisture, salt, chemicals, and harsh environments.
- Reliable performance during handling, installation, burial, and operation, especially in Dual-Layer FBE systems.

Applications:

Internal and external coating for oil, gas, water, and petrochemical pipelines, steel rebars, industrial fittings, underground projects, and offshore structures.

These coatings are available as Single-Layer (primer for 3LPE) and Dual-Layer FBE.

The company is featured on the Ministry of Petroleum's Approved Vendor List (AVL) and holds approvals from water industry consultants, having participated in various projects including Phases 1 and 2 of the Persian Gulf Water Transfer Project.





Advanced Corrosion Protection for Pipelines

05

FAM GOSTAR MAHAN
Electrostatic Powder Coatings

ZINC-RICH

Anti-Corrosion Primer with Effective Galvanic Protection

Fam Gostar Mahan's Zinc-Rich powder coating is a specialized primer designed to protect steel surfaces in highly corrosive and humid environments. The high percentage of zinc in the formulation protects the base metal through "sacrificial" action, significantly increasing the lifespan of the entire coating system.

Main Advantages:

Zinc-Rich Anti-Corrosion Primer with Effective Galvanic Protection.

Reduced risk of corrosion even if the surface is damaged.

Excellent adhesion to shot-blasted surfaces.

Ideal base layer for topcoats such as Polyester or Polyurethane.

Applications:

Heavy steel structures, bridges, warehouses, port and coastal equipment, heavy-duty vehicle chassis, tanks, and pipelines.



Anti-Corrosion Primer with Effective Galvanic Protection

06

FAM GOSTAR MAHAN
Electrostatic Powder Coatings

POLYURETHANE

High Durability Combined with Premium Appearance

Fam Gostar Mahan's Polyurethane powder coating is a premium choice for applications where both aesthetic beauty and high resistance to weathering and abrasion are critical. This product provides a uniform, high-quality, and long-lasting finish, making it ideal for decorative and advanced industrial projects.

Main Advantages:

Excellent resistance to UV rays, yellowing, and gloss reduction.

Luxury appearance and superior surface quality.

High resistance to scratching, abrasion, and environmental conditions.

Capability to be produced in specialized effects and textures based on customer requirements.

Applications:

Automotive components, wheel rims, modern architectural facades, urban furniture, outdoor equipment, industrial machinery, specialized decorative applications, kitchenware, and roof tiles.



High Durability Combined with Premium Appearance

07

FAM GOSTAR MAHAN
Electrostatic Powder Coatings

LOW CURE

Energy Consumption Reduction and Enhanced Production Efficiency

Fam Gostar Mahan's Low-Cure powder coating is designed for manufacturers seeking energy savings, increased production speeds, and the ability to coat heat-sensitive parts. This product allows for curing at lower temperatures or shorter durations, significantly boosting production line throughput.

Main Advantages:

- Direct reduction in oven energy consumption.
- Increased production speed and output capacity.
- Suitable for thick, heavy, or heat-sensitive components.
- An economical option for facilities with energy constraints or limited curing time.

Applications:

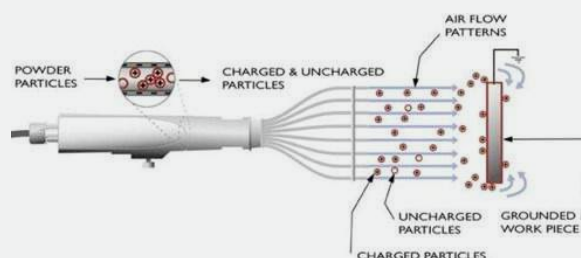
Casting and heavy parts, MDF and engineered wood products, Bakelite, pre-assembled sets, home appliances, and high-speed production lines.



Energy Consumption Reduction and Enhanced Production Efficiency

08

TRIBO



Uniform Coating for Complex Geometries and Blind Corners

Fam Gostar Mahan's Tribo powder coating is specifically formulated for friction-charging (Tribostatic) spray systems and parts with complex geometries. By reducing the Faraday Cage effect, it enables better coverage in corners, gaps, and internal spaces of the workpiece.

Tribo technology and its application equipment differ from standard Corona systems; the electrical charge is generated through induction or friction as the powder passes at high pressure over specialized insulating materials (such as Teflon).

Main Advantages:

- Excellent penetration into difficult angles and recessed areas.
- Uniform spray pattern without unwanted powder buildup.
- Reduced powder waste and increased consumption efficiency.
- Suitable for both automatic and manual Tribo lines.

Applications:

Complex engineering parts, specialized aluminum sections, radiators, heat exchangers, Power Transmission Transformer, mesh structures, lighting equipment, and parts with limited internal access.



Uniform Coating for Complex Geometries and Blind Corners

09

FAM GOSTAR MAHAN
Electrostatic Powder Coatings

UV-CURE

Extraordinary Speed for Heat-Sensitive Substrates

Fam Gostar Mahan's UV-Cure powder coating is an advanced technology for manufacturers requiring ultra-fast curing, high quality, and the ability to coat heat-sensitive substrates. By combining thermal melting with final UV radiation curing, the process time is reduced to a minimum.

Main Advantages:

Final curing achieved in just a few minutes.

Ideal for substrates sensitive to high temperatures.

Creates a dense, hard, and uniform surface.

Increases production line speed and reduces the required process footprint.

Applications:

MDF and wood, plastic and composite parts, pre-assembled sets, electronic components, and continuous high-speed production lines.



Extraordinary Speed for Heat-Sensitive Substrates



NANO POWDER COATING

High Thermal Resistance up to 350°C (Indirect)

Key Features:

- High thermal resistance up to 350°C (Indirect).
- Superior adhesion and multi-fold scratch resistance.
- High impact resistance.
- Corrosion resistance (Nano-scale certified).

Supplementary Description:

Fam Gostar Mahan is proud to be the first company in Iran to develop and produce various powder coatings based on Nanotechnology. Our Nano-coatings resolve many physical property limitations found in conventional paints.

Key advantages include:

- Thermal resistance up to 350°C (indirect exposure).
- Adhesion and scratch resistance several times higher than current standard coatings.
- Resistance to gradual and sudden impact and flexibility stress.
- Corrosion resistance exceeding 1100 hours in Salt Spray tests according to the ASTM B117 standard.
- Improved storage conditions, eliminating phenomena such as caking while maintaining high powder fluidity.
- No shade alteration under UV radiation (sunlight) and harsh weather, particularly in dark shades.
- Anti-dust properties, preventing environmental dust accumulation on coated surfaces.
- Flame retardant

FAM **GOSTAR MAHAN**

Electrostatic Powder Coatings

RAALS

Smooth Finish

Leather Texture

Wrinkle Effect

Fine Hammertone

Coarse Hammertone

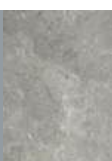
Sand Texture

Crackle Finish

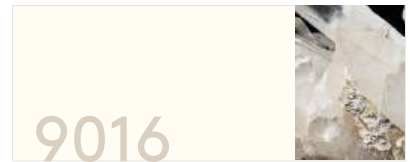
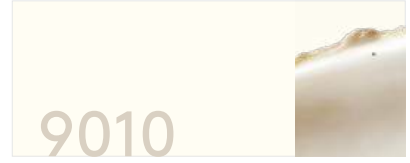
Crocodile Texture

Smooth Powder Coatings

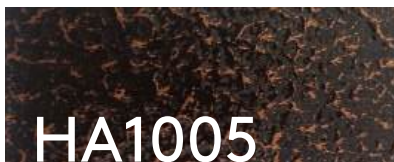
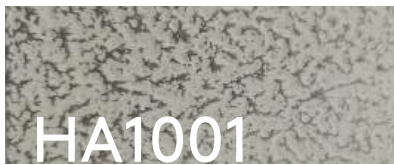
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 1028	 3020	 5015
 2004	 4005	 5017
 2013	 5002	 5018
 3002	 5003	 5025

5026 	7011 	7035 
6000 	7012 	7040 
6012 	7015 	7043 
6026 	7016 	7045 
6027 	7021 	7047 
6029 	7023 	7048 
6035 	7024 	8000 
7001 	7032 	8001 
7003 	7033 	8003 

Smooth Powder Coatings



Textured Powder Coatings



TYPES OF POWDER COATINGS

Beyond Just Color

Every surface is a signature.

Before a product's quality is judged, it is recognized by its surface appearance. Fam Gostar Mahan offers a comprehensive range of electrostatic powder coatings in a full spectrum of gloss levels and textures, delivering a professional, distinctive, and durable finish to metal surfaces.

Gloss Levels

- Super Gloss
- Semi-Gloss
- Semi-Matte
- Matte
- Super Matte

Textures & Finishes

- | | |
|-----------------------------|--------------------------------------|
| • Smooth / Plain | • Fine Hammertone (Fine Hammer): |
| • Leatherette (Orange Peel) | • Coarse Hammertone (Coarse Hammer): |
| • Wrinkle | • Sandy (Texture): |
| • Vein (Crack) | • Crocodile (Alligator): |
| • Metallic | |

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