



Azarfam Poodri Co.

Since 2001



Address: Azarfam Poodri Co. - Motahari Blvd.-
Next to Shahid Rajai Industrial zone-Tabriz/IRAN
www.amicoir.com azarfam@amicoir.com
☎ :+98-41-34207916-8
📞 :+98-41-34209066

Producing different kinds of electrostatic powder coatings, for Out doors / indoor uses and special powder coating for special industries.



AMICO POWDER COATING

Azarfam poodri Company

Producing different kinds of electrostatic powder coating

Azarfam Poodri company is one of the Amico Industrial Group subsidiaries that has founded in 2001 in historical and industrial city of Tabriz which is manufacturing powder coatings for different industrial uses.

Azarfam Poodri company with its standard "Quality is the Secret of Persistence" offers its products with high quality and competitive prices because of getting and transferring formulation technology of more than 300 kinds of electrostatic powder coatings from American and European countries and also depending on specialist personnel and desirable raw materials.

Azarfam Poodri is producing various kinds of powder coatings for outdoor/indoor uses and also some special coatings for special industries.

This company also has the Certificate of Registration ISO 9001:2008 in quality management system.

Amico Powder Coating

Powder coating is a type of coating that is applied as a free-flowing, dry powder. The main difference between a conventional liquid paint and a powder coating is that the powder coating does not require a solvent to keep the binder and filler parts in a liquid suspension form. The coating is typically applied electrostatically and is then cured under heat to allow it to flow and form a "skin". Powder coating is mainly used for coating of metals, such as household appliances, aluminum extrusions, drum hardware, and automobile and bicycle parts.

Types of powder coating

There are two main categories of powder coating: thermosets and thermoplastics. The most common polymers used are Polyester, Polyester-Epoxy (known as hybrid), Epoxy, Polyurethane,

Production:

1. The polymer granules are mixed with hardener, pigments and other powder ingredients in an industrial mixer, such as a turbomixer
2. The mixture is heated in an extruder
3. The extruded mixture is rolled flat, cooled and broken into small chips
4. The chips are milled and sieved to make a fine powder

The powder coating process

The powder coating process involves three basic steps:

1. Part preparation or the pre-treatment
2. The powder application
3. Curing

What are the advantages of using Powder Coating instead of other coating treatments?

1. Powder coatings emit near zero volatile organic compounds (VOC).
2. Powder coatings can produce much thicker coatings than conventional liquid coatings without running or sagging.
3. Powder coated items generally have fewer appearance differences between horizontally coated surfaces and vertically coated surfaces than liquid coated items.
4. The wide range of specialty effects are easily accomplished using powder coatings that would be impossible to achieve with other coating processes.[2]

ISO 9001 :2008
CERTIFIED ORGANIZATION



CERTIFICATE NO. 2 7 9 8 1





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Epoxy powder coating

General:

This kind of powder coating is used when high corrosion and chemical resistance is needed.

Application:

Electrical Equipment, Insulation of Armature, Hospital and Medical Equipment, Laboratory Furniture and Different Machineries.

Spraying Method:

Electrostatic Gun 70-90 Kv , Air Pressure 1.5-2.5 Bar

Storage Condition;

Optimum conditions for powder coating storage:

Temperature: Keep in cool place (25°C).

Moisture/Humidity: Keep in dry place.

Contamination: Keep away from dusty and dirty places.

Sunlight: Keep away from direct sunlight.

Expiration: You can keep powder coatings in optimum conditions for 12 months.

Curing:

185°C-15 min

200°C-10 min

Covering:

In optimum conditions due to different kinds of powder coatings, for the thickness of 65-75 microns standard covering is 7-9 m²/kg

Features after curing:

Gloss: 90±5

Semi Gloss: 50±5

Matt: 10±5

Adhesion: 0% GT

Conical Bending: 4mm

Impact Test (Direct,Indirect): 2lb/40in

Pencil Hardness : HB-2H

Corrosion Resistance:

This kind of powder coating is resistant to the wide range of chemicals, acids, petroleum, solvents and some alcohols.

Quality Control For Epoxy powder coating

Test	Unit	Matt	S.Gloss	Gloss
Thickness	Micron	65-75	65-75	65-75
60° Gloss	%	10±5	50±5	90±5
Impact Test	lb/inch	60lb/inch	60lb/inch	60lb/inch
Conical Bending	mm	4	4	4
Perso/Pencil Hardness	Sec/HB	198 HB-3H	198 HB-3H	198 HB-3H
Adhesion	GT%	0	0	0

Epoxy - Polyester Powder Coating

General:

Thermoset Epoxy-Polyester powder coatings known as Hybrid, This kind of powder coatings is sensitive to sunlight, that's why is used for indoors.

This powder coating is similar to epoxy group of powder coatings but has better wane-resistance while compared.

Application:

Office and School furniture, Steel Doors, Racks and Cabinets, Electrical Equipment, Home Appliances like as Refrigerator, Dishwasher, Oven and Heater.

Spraying Method:

Electrostatic Gun 70-90 Kv , Air Pressure 1.5-2.5 Bar

Storage Condition:

Optimum conditions for powder coating storage:

Temperature: Keep in cool place (25°C).

Moisture/Humidity: Keep in dry place.

Contamination: Keep away from dusty and dirty places.

Sunlight: Keep away from direct sunlight.

Expiration: You can keep powder coatings in optimum conditions for 12 months.

Curing:

185°C-15 min

200°C-10 min

Covering:

In optimum conditions due to different kinds of powder coatings, for the thickness of 65-75 Microns, standard covering is 7-9 m²/kg

Features after curing:

Gloss: 90±5

Semi Gloss: 50±5

Matt: 10±5

Adhesion: 0% GT

Conical Bending: 4mm

Impact Test (Direct,Indirect): 2lb/40in

Pencil Hardness : HB-2H

Corrosion Resistance:

This kind of powder coating is resistant to the wide range of chemicals, acids, petroleum, solvents and some alcohols.

Quality Control For epoxy-polyester powder coating

Test	Unit	Matt	S.Gloss	Gloss
Thickness	Micron	65-75	65-75	65-75
60° Gloss	%	10±5	50±5	95±5
Impact Test	lb/inch	60lb/inch	60lb/inch	60lb/inch
Conical Bending	mm	4	4	4
Pencil Hardness	Sec/HB	198 HB-3H	198 HB-3H	198 HB-3H
Adhesion	GT%	0	0	0



Polyester Powder Coating

Polyester:

This kind of powder coatings are very similar to Hybrid system powder coatings but have complete resistance to UV Rays, Wansess and weather conditions.

Application:

This group of powder coating is optimum for outdoor such as Aluminium Profiles, Steel Doors, Outdoor Lightening Equipment, Traffic Signs, Agricultural Machineries, Metal Parts of Bicycles and Motorcycles.

Spraying Method:

Electrostatic Gun 70-90 Kv , Air Pressure 1.5-2.5 Bar

Storage Condition:

Optimum conditions for powder coating storage:

Temperature: Keep in cool place (25°C).

Moisture/Humidity: Keep in dry place.

Contamination: Keep away from dusty and dirty places.

Sunlight: Keep away from direct sunlight.

Expiration: You can keep powder coatings in optimum conditions for 12 months.

Curing:

200°C-12 min

Covering:

In optimum conditions due to different kinds of powder coatings, for the thickness of 75-85 Microns, standard covering is 7-9 m²/kg

Features after curing:

Gloss: 90±5

Semi Gloss: 50±5

Matt: 10±5

Adhesion: 0% GT

Conical Bending: 4mm

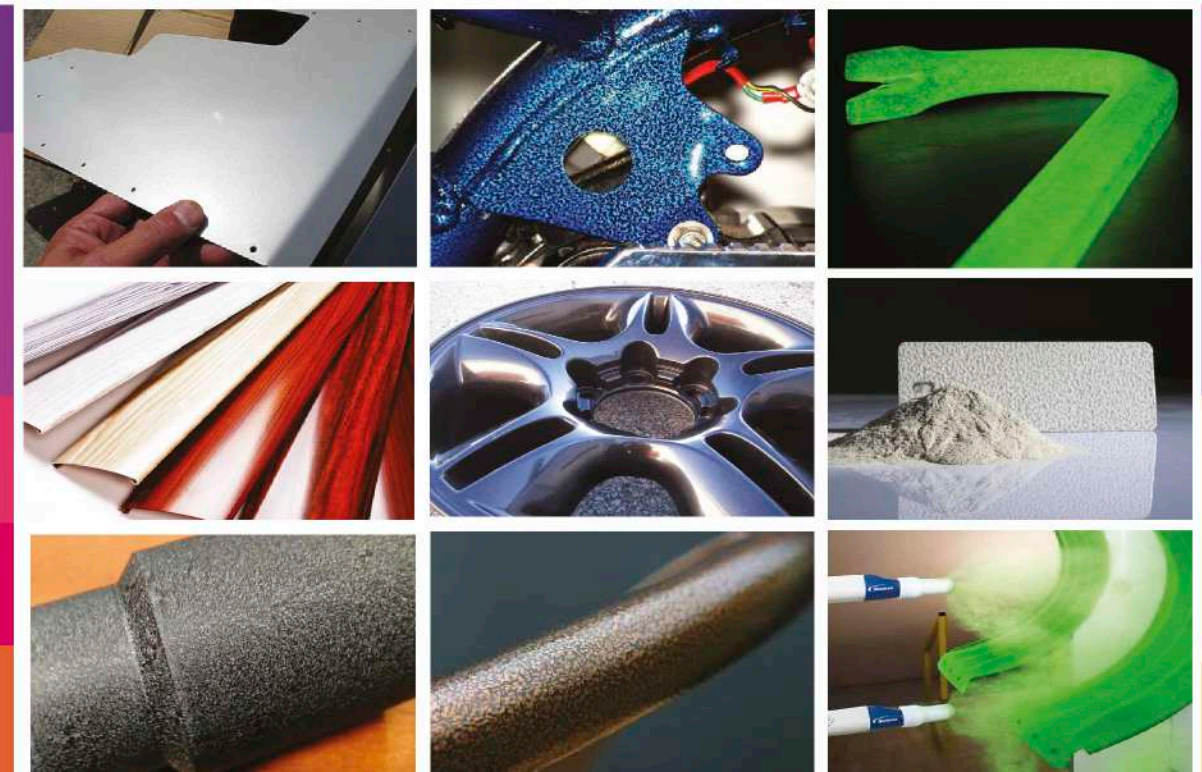
Impact Test (Direct,Indirect): 2lb/40in

Pencil Hardness : HB-2H



Quality Control For polyester powder coating

Test	Unit	Matt	S.Gloss	Gloss
Thickness	Micron	75-85	75-85	75-85
60° Gloss	%	10±5	50±5	90±5
Impact Test	lb/inch	60lb/inch	60lb/inch	60lb/inch
Conical Bending	mm	4	4	4
PersoZ/Pencil Hardness	Sec/HB	198 HB-3H	198 HB-3H	198 HB-3H
Adhesion	GT%	0	0	0
UV Resistance	Delta E	Excellent	Excellent	Excellent



Polyurethane powder coating

This kind of powder coating is completely resistant to UV Rays, wanness, Humidity and Corrosion. Due to these properties it is very suitable to be used in outdoor.

Application:

Lightening Equipment, Traffic Signs, Agricultural Machineries and Aluminium Profiles.

Spraying Method:

Electrostatic Gun 70-90 Kv , Air Pressure 1.5-2.5 Bar

Storage Condition:

Optimum conditions for powder coating storage:

Temperature: Keep in cool place (25°C).

Moisture/Humidity: Keep in dry place.

Contamination: Keep away from dusty and dirty places.

Sunlight: Keep away from direct sunlight.

Expiration: You can keep powder coatings in optimum conditions for 12 months.

Corrosion Resistance:

This kind of powder coating is resistant to the wide range of chemicals and solvents.



Quality Control For polyurethane powder coating

Test	Unit	Matt	S.Gloss	Gloss
Thickness	Micron	75-85	75-85	75-85
60° Gloss	%	10±5	50±5	90±5
Impact Test	lb/inch	60lb/inch	60lb/inch	60lb/inch
Conical Bending	mm	4	4	4
Persoz/Pencil Hardness	Sec/HB	198 HB-3H	198 HB-3H	198 HB-3H
Adhesion	GT%	0	0	0
UV Resistance	Delta E	Excellent	Excellent	Excellent



