



# What is Powder coating?

Powder coatings are used for the protection and decoration of objects, mostly metallic, while imparting specific surface properties based on their usage requirements.

Depending on the needs, there are different types of powder coatings available in the market, but the most common ones are:

- Polyester / Super durable polyester (Weather resistance)
- Epoxy (Chemical resistance, indoor use)
- Epoxy Resicoat (High dielectric strength)
- Epoxy-polyester (General indoor use)

Powder coating, as the name suggests, is a finely divided dry product that is generally applied to the piece to be coated through electrostatic projection.

This process takes place in a specially designed booth where an electrostatic field is generated between the application gun and the usually metallic piece, which is grounded. This attracts the powder projected by the gun and electrostatically adheres it to the surface.

Subsequently, the piece undergoes heating which melts the powder, forming a liquid layer that immediately begins to polymerize until a high-quality paint layer is obtained once cooled.

The main advantages of this type of finish, available in a wide range of colors and textures, include excellent adhesion, surface hardness, resistance to chemical agents and corrosion, impact resistance, high thickness in a single coat, dielectric resistance, flexibility, etc.

Surfaces to be coated must be perfectly treated beforehand to eliminate any contamination such as dirt, oil, grease, or other substances, and preferably chemically treated to guarantee and enhance coating properties. When applied over previously primed surfaces, especially E-Coating, corrosion resistance is dramatically increased.

Its application field is so extensive that it covers all imaginable industrial and decorative sectors, as any type of resin can be formulated for this application.

Since they do not use any solvents, these coatings are environmentally friendly.



See technical specifications on the back

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# Technical characteristics

## USES

				
Automotive	Household appliances	Gift objects	Tools	Lighting
				
Heating	Industry	Decoration	Machinery	Etc.

## APPLICATIONS

All types of steels	Aluminum and its alloys	Iron or aluminum casting
All types of metals and their alloys	Glass and ceramic materials	

## ADVANTAGES

- Good corrosion protection.
- High chemical resistance.
- High mechanical strength (hardness, flexibility, impact resistance, abrasion).
- Impermeability.
- High substrate adhesion.
- High dielectric strength.
- Thicknesses between 45 and 150 microns in a single layer.
- Finishes in multiple colors and textures.
- Automated painting process.
- Environmentally friendly.
- Cost-effective.

## GAUGE

**2600 x 1600 x 600 mm**  
(length x height x width)

## FACILITIES

**5**

Five-stage surface pretreatment tunnel with subsequent drying.



Automatic application booth, state-of-the-art, with piece silhouette reading.



Polymerization oven of canopy type.



Operating installation coordinated with E-Coating Power&Free.