



# What is E-Coating?

**E-Coating (also called cathodic electrodeposition or also known as KTL) is one of the most used techniques for high protection against metal oxidation.**

This is a painting system by immersion using an electrodeposition process, allowing treatment of any type of metal, whether steel, galvanized or electrogalvanized steels, cast iron, aluminum, zamak, forging, etc.

Prior to E-Coating, the pieces must undergo a tri-cationic cleaning and phosphating treatment ensuring perfect paint adhesion and enhancing its anticorrosive power. Throughout the process, we use high-quality water, both osmotized and deionized, generated internally in treatment plants.

Next, they are immersed in a hydro-soluble paint bath where an electric field is created causing the paint particles to become positively charged and move towards the pieces to be painted, which are connected to the negative pole. This process ends when the thickness of accumulated paint particles isolates the surface to be painted, halting the flow of current and therefore paint.

With this method, we achieve a uniform coating over the entire surface of the piece, including corners and internal parts, with a thickness completely controllable between 15 to 45 microns.

Once painted, the pieces must undergo baking to achieve paint polymerization.

Due to its high anticorrosive treatment and good finishing, it is applied, either as a single coat or as a base layer, in a wide range of sectors such as automotive, lighting, railway, urban furniture, air conducts, and all those with significant anticorrosive requirements.

Being an epoxy-based anticorrosive primer, the pieces can be repainted with both liquid and powder paint to increase their resistance to environmental conditions or to achieve various aesthetic finishes.

Its application system and the use of water-dispersed paint make E-Coating an environmentally friendly and cost-effective application system.



See technical specifications on the back

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# Technical characteristics

## USES

				
Automotive	Household appliances	Structural elements	Railway	Lightning
				
Computing	Machinery	Construction materials	Urban and garden furniture	Etc.

## APPLICATIONS

Steels	Galvanized	Electrogalvanized	Aluminized	Aluminum
Iron or aluminum casting		Zamak	Sintered	Forging

## ADVANTAGES

- Excellent corrosion protection with a low paint thickness.
- Improves corrosion resistance of galvanized and electrogalvanized materials.
- High chemical resistance.
- Uniform and controllable thickness (between 15 and 45 microns).
- Edge and corner coating.
- Hollow body protection.
- Finish appearance.
- Repaintable with any type of paint, powder or liquid.
- Improves paint adhesion.
- Black color finish.
- Automated painting process.
- Environmentally friendly.
- Cost-effective.

## GAUGE

**2600 X 1600 X 650 mm**  
(length x height x width)

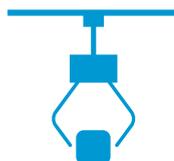
## FACILITIES

**2**

Autonomous application plants.

**17**

Surface treatments in 17 stages, by immersion, spraying, and advanced mixed technologies.



Parts conveyors of Gantry and "Power & Free".

**650kg**

Workloads of up to 650 kg.