

E-Coating

Exceptional corrosion protection
and durability



AZZ SURFACE TECHNOLOGIES E-COATING CAPABILITIES

From small parts to components up to 60 feet in length, AZZ consistently delivers high-quality e-coatings which meet the stringent standards of the industries we serve:

- Aerospace
- Architectural
- Automotive
- Communications
- Oil and Gas



Superior corrosion resistance with 100% coverage

AZZ Surface Technologies' highly automated e-coating operations are equipped for high-volume production and fast turn-around times, which result in improved supply chain efficiency. E-coating provides comprehensive corrosion protection, enabling paint coverage to reach areas inaccessible by spray applications. A corrosion-resistant epoxy coating is created by applying an electrical current to a paint bath. The submerged part is energized to attract paint particles evenly to every surface, including interior cavities.

Large-scale production with fast turnaround times

A division of AZZ, North America's largest hot-dip galvanizer of fabricated metals, we have a significant operating footprint and state-of-the-art facilities, which make us well equipped for large-scale production and fast turnaround times. Extensive experience and strong quality control enable us to meet the stringent standards of the many industries we serve, earning us the following certifications and accreditations:

- **AS9100** (aerospace quality management)
- **Caterpillar** (heavy equipment)
- **General Dynamics** (aerospace and defense)
- **ISO** (quality management)
- **NADCAP Quality** (aerospace and defense)
- **PACCAR** (automotive)

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CONSISTENT APPLICATION WITH SUPERIOR FINISH

- Excellent corrosion protection without the use of weighty metals
- Superior throw power for uniform film thickness that creates total part coverage: inside cavities of part as well as the outside surface
- Fewer corrosion results due to durability



Our state-of-the-art process utilizes multiple sub-phases

Electrocoating, e-coating, or electrodeposition is an industrial paint process that applies an electrical current in a submerging bath to apply coating to a part or product. When energized, the part attracts paint particles providing total paint coverage, including areas that are typically inaccessible to other types of spray applications. The automated process ensures a precise, evenly deposited film and superior finish.

Our e-coat process consists of several sub-phases:

1. Pre-treatment Cleaning
2. Electrocoat Bath
3. Rinsing Process
4. Curing Oven (Bake Oven)

Multiple locations provide flexible capacity with on-time deliveries

AZZ's North American network of state-of-the-art, highly automated facilities enables us to integrate seamlessly into your supply chain and provides the capacity and fast turn-around times to meet your most demanding production schedules with consistent, on-time delivery.

The key to ensuring a quality, consistent finish

Surface preparation is critical to attaining a high-quality finish. AZZ Surface Technologies has extensive expertise in sandblasting, which efficiently and effectively smooths rough edges and repairs surface blemishes. Our sandblasting capabilities extend to parts as large as 40 feet in length, and our quality control measures, in accordance with our ISO 9001 certification, ensure an optimal surface for comprehensive and consistent coating.

One aspect of our quality control is the daily stripping of the hooks, racks, fixtures, and steel parts used in our operations. The process ensures the proper grounding and consistent coverage of the parts to be coated the following day. The stripping of organic paint and powder coating from parts and fixtures is a service we also offer to our customers.

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