

HPS Flooring Completes an Epoxy Floor in a Plating Facility

Flooring For A Plating Facility

PASSAIC, NJ, UNITED STATES, October 8, 2025 /EINPresswire.com/ -- [*HPS Flooring](#) Completes an Epoxy Floor in a Plating Facility*

When it comes to industrial flooring for plating facilities, precision, durability, and chemical resistance are non-negotiable. At HPS Flooring, we recognize that plating environments require flooring systems that can withstand corrosive chemicals, heavy equipment, and constant foot traffic. Our latest project showcases how our team consistently delivers exceptional results through the use of advanced materials, professional craftsmanship, and strict adherence to safety and performance standards.



Before

Understanding the Needs of a Plating Facility

Plating operations involve electrochemical processes that expose floors to a variety of aggressive substances, including acids, alkalis, and solvents. Floors in such facilities are constantly challenged by chemical spills, heavy machinery, and thermal cycling. Any failure in the flooring system can lead to contamination, safety hazards, or costly downtime.

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Plating Facilities Require Great Attention To Safety Standards Due to The Hazardous Materials”

Jeffrey Smedley

When the client reached out for a complete epoxy floor installation, their priorities were clear: they needed a long-lasting, chemical-resistant, non-slip, and low-maintenance solution. We assessed the unique operational conditions of

the facility, ensuring that our design would meet every requirement for safety, compliance, and durability.

The Project Scope and Objectives

The plating facility in question operates around the clock, handling a mix of nickel, zinc, and chrome plating. The flooring system had to endure continuous exposure to moisture, acids, and mechanical abrasion. In addition, the client required a system that would improve worker safety, facilitate easy cleaning, and minimize downtime during installation.

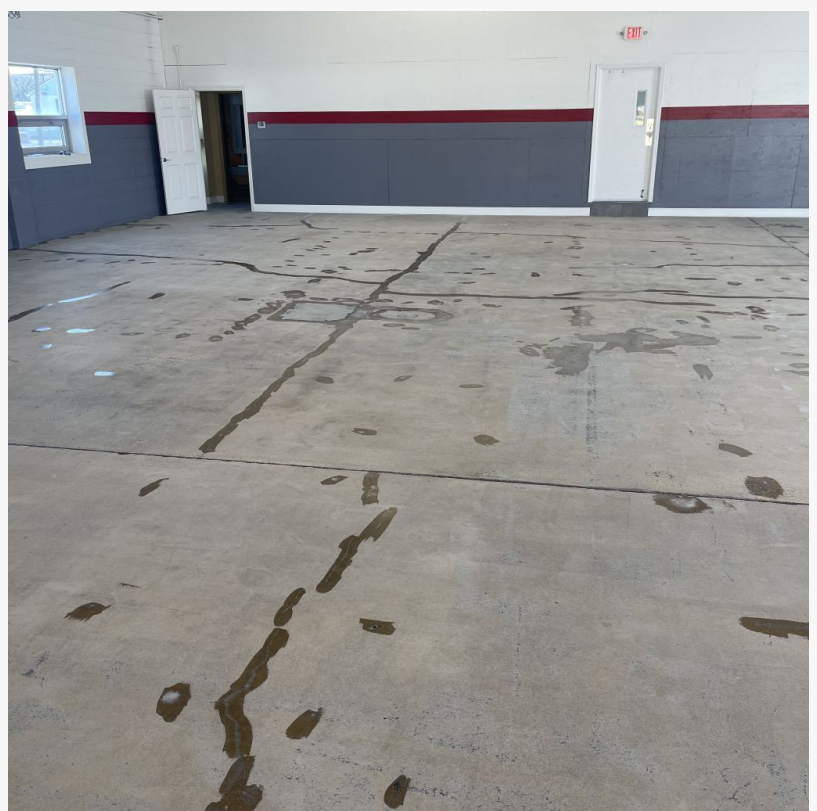
The objective was to deliver an epoxy flooring system that would:

- Resist chemical corrosion and acidic degradation
- Provide a non-slip, safe walking surface
- Offer seamless coverage to prevent bacterial growth
- Maintain aesthetic appeal and brightness in a demanding industrial setting
- Deliver a fast return-to-service to reduce operational interruptions

Surface Preparation: The Foundation of Quality

Proper surface preparation is the cornerstone of any epoxy flooring installation. The team began by mechanically grinding and shot-blasting the existing concrete substrate to remove contaminants, old coatings, and laitance. This process created an ideal surface profile for the epoxy system to bond securely.

Cracks and imperfections were repaired using epoxy patching compounds, ensuring a smooth and stable foundation. Moisture levels in the slab were tested and confirmed within acceptable limits before application.



During



After

Meticulous preparation ensures that the epoxy floor adheres perfectly and delivers decades of reliable service.

Choosing the Right Epoxy Flooring System

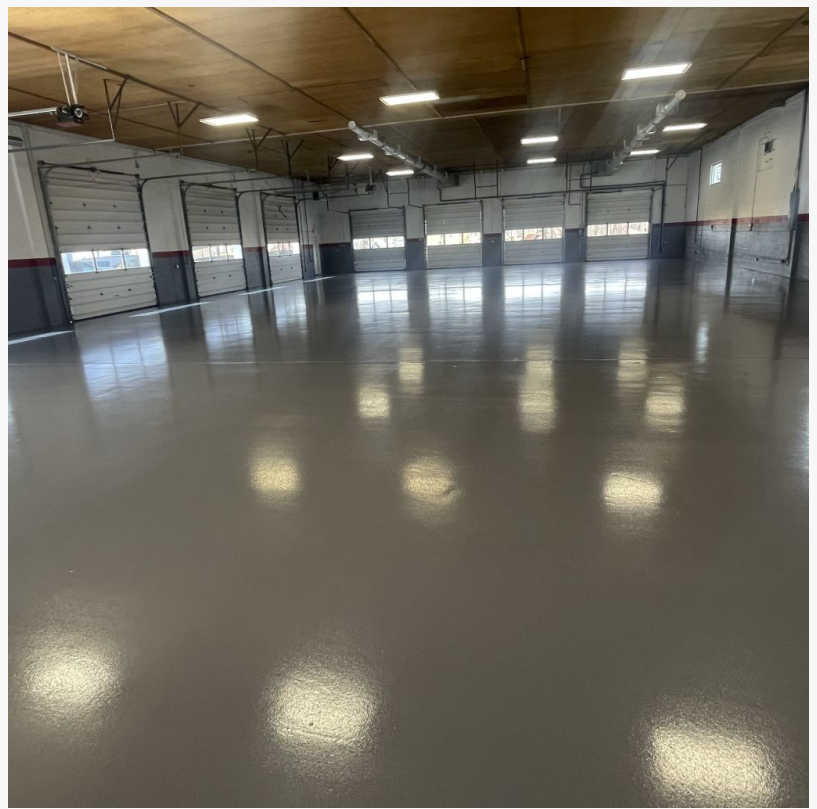
Given the operational challenges of the plating environment, our specialists selected a multi-layer epoxy flooring system engineered for chemical and thermal resistance. The system consisted of:

- Epoxy Primer: To promote adhesion and seal the substrate against vapor transmission.

- High-Build Epoxy Basecoat: Formulated to withstand aggressive chemicals and mechanical abuse.

- Chemical-Resistant Topcoat: A high-performance urethane or novolac epoxy top layer to resist acids and solvents while providing UV stability and gloss retention.

After



This robust combination creates a seamless, impermeable barrier that protects the underlying concrete from degradation and contamination. The chosen system also offers excellent impact resistance, ensuring long-term reliability under heavy industrial use.

Installation Process: Precision and Expertise in Action

Once surface prep was complete, the resin application began a multi-stage installation process. Each layer was applied under controlled temperature and humidity conditions to guarantee proper curing and bonding.

- Priming: A penetrating epoxy primer was applied to seal the concrete and ensure optimal adhesion.

- Basecoat Application: The high-build epoxy basecoat was trowel-applied and back-rolled for uniform thickness.

- Broadcast Aggregate (Optional): For additional slip resistance, a silica or aluminum oxide aggregate was broadcast into the wet epoxy.

- Topcoat Sealing: A final layer of novolac epoxy was applied to lock in durability and chemical protection.

Every phase of the installation was carefully inspected for consistency, thickness, and coverage. Application methods ensure uniform curing, smooth finishes, and a flawless appearance

throughout the facility.

Safety and Compliance Standards

Epoxy floor contractors must adhere to the strictest safety and environmental standards during every project. All materials used in this installation were low-VOC and compliant with EPA and OSHA regulations. The finished floor provides a slip-resistant texture that enhances worker safety in wet or oily conditions, reducing the risk of accidents.

Additionally, epoxy systems are seamless and non-porous, preventing the accumulation of bacteria, mold, and contaminants—a vital feature for facilities operating under strict hygiene protocols.

Benefits Delivered to the Client

Upon completion, the plating facility was left with a [high-performance epoxy floor system](#) that exceeded expectations. Key benefits included:

- Exceptional Chemical Resistance: The novolac epoxy topcoat provided unmatched protection against acids, caustics, and solvents.
- Seamless Design: Eliminated grout lines and joints that could harbor contaminants.
- Low Maintenance: Easy to clean and maintain, saving time and reducing labor costs.
- Enhanced Safety: Slip-resistant texture minimized accidents in wet conditions.
- Long-Term Value: The system is built to last decades, significantly reducing life-cycle costs.

The client reported an immediate improvement in operational efficiency, cleanliness, and employee safety, reinforcing the importance of choosing the [right flooring contractor](#).

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