



Request for quotes Swimming Pool Coating System

1.01 General

A. Scope Provide all labor, materials, equipment, and services necessary to prepare existing pool interior surfaces and apply a high-build, two-component epoxy swimming pool coating system, complete and in place.

B. Acceptable System – Basis of Design

Basis of design: high-solids epoxy pool coating system specifically formulated for immersion-grade epoxy pool interiors.

2.01 Performance Requirements

A. Coating System Characteristics

Two-component, high-solids epoxy for continuous immersion, minimum total system build 8–12 mils DFT, adhesion to properly prepared substrate, and documented resistance to typical pool water chemistry.

3.01 Surface Preparation

A. General

All preparation shall comply with the epoxy manufacturer's written instructions and ICRI Guideline 310.2R for concrete surface profiles (CSP).

Acid etching alone is not acceptable. Surface must be mechanically prepared by diamond grinding and/or abrasive blasting to achieve the specified CSP profile.

B. Diamond Grinding Requirements

Primary method of preparation for sound concrete/plaster/aggregate surfaces shall be diamond grinding using walk-behind or planetary grinders with appropriate tooling.

Use metal-bond diamond tooling selected to achieve a surface profile equivalent to ICRI CSP 2–3 for typical epoxy pool coatings, unless the epoxy manufacturer requires a higher profile.

Grinding shall:

Remove existing laitance, chalking, loose or incompatible coating, and surface contaminants.

Uniformly degloss and open the surface without excessive gouging or exposing reinforcement.

Feather all transitions between repaired areas and original substrate.

C. CSP Verification

After mechanical prep, Contractor shall verify that the surface matches ICRI CSP 2–3 chips (or the profile specified in the epoxy manufacturer's data) before coating.

Areas not meeting the required CSP shall be re-ground or otherwise corrected prior to coating.

D. Existing Coatings / Incompatible Materials

Existing coatings that are not compatible with the new epoxy system (as determined by the



epoxy manufacturer) shall be completely removed by diamond grinding or blasting back to sound substrate.

E. Dust Control and Cleaning

All grinding equipment shall be connected to HEPA-filtered dust collection where feasible. After grinding, surfaces shall be vacuumed and cleaned per manufacturer instructions with no visible dust, slurry, or debris remaining before coating.

F. Moisture and pH

Substrate moisture and pH shall be tested and meet the epoxy manufacturer's limits before coating.

4.01. Contractor qualifications and submittals

5.01 Separate quote for slide

The contractor shall furnish all labor, materials, equipment, and supervision necessary to prepare and recoat the existing water slide and associated slide support structure. Work shall include thorough surface preparation of all coated and bare substrates, including removal of loose or failing coatings, rust, chalking, and surface contaminants in accordance with industry standards for aquatic facilities. The contractor shall verify compatibility of proposed coating systems with existing substrates and provide a complete system (primer, intermediate, and finish coats as required) specifically designed for constant wet environments, UV exposure, and chemically treated pool water. All products shall be applied strictly in accordance with the manufacturer's written instructions and recommended film thicknesses.

Particular attention shall be given to safety, appearance, and longevity. All coating materials used on the slide flume and hand-contact areas shall be suitable for use in public aquatic environments, providing a smooth, non-abrasive, and slip-resistant surface where required. The contractor shall protect surrounding pool surfaces, decks, and adjacent features from overspray and contamination, maintain a clean work area, and coordinate with the owner to minimize disruption to pool operations. At completion, the contractor shall perform touch-ups as needed, remove all debris, and provide the owner with product data sheets, color information, and written curing/return-to-service requirements for the recoated slide and slide structure.