

RUST-OLEUM INDUSTRIAL PROJECT PROFILE



NOXYDE™ SCORES

*During Construction
of New Mile High
Stadium*

Situational Analysis

The new Denver Broncos' Mile High football stadium has been widely lauded as a dream venue for fans and players alike. But in August of 2000, the project was running behind schedule and over budget. Contractors and architects were challenged to bring the project back on track.

Problem

One of the project's bottlenecks was the process needed to coat the steel prior to construction. The time-consuming method required three different applications: an inorganic zinc primer, followed by an epoxy intermediate layer, finishing with a urethane. Post-construction touch-up was also needed to cover up any incidental flaws. Additionally, abrasive blasting was necessary to prepare the steel prior to construction. With the conventional system slowing construction, it became increasingly clear that a new coating method was necessary. (By August of 2000, the construction was approximately seven weeks behind schedule and over budget.)

Solution

Mile High stadium paint contractors, Ammon Painting, recommended a switch to the Noxyde™ product to replace the conventional urethane coating method. Manufactured by Belgium-based Martin Mathys and available through Rust-Oleum Corporation, an affiliate of Martin Mathys, Noxyde™ is a single-component, water-based, elastomeric acrylic coating system that provides corrosion, rust-proofing, and waterproofing protection.

The switch to Noxyde™ allowed workers to accelerate construction, as no pre-construction priming was necessary with the product. A simple water-blasting treatment was all the preparation necessary prior to the application. Two coats of Noxyde™ were sprayed on at 5 mils each, followed by an overcoat of Martin Mathys' Dac-Hydro-Alu™, a water-based elastomeric coating designed for durable protection of metal. Minimal touch-up was needed due to Noxyde's™ resiliency, as well as its post-construction application.

Phil Moore, general manager with Ammon Painting, comments, "The low-maintenance Noxyde™ product was ideal for the Denver stadium project. It required few coats and basically no touch-up after application: it brought us much-needed time."

Benefits

Noxyde™ has 200 percent elongation to prevent cracking and peeling. This elasticity is critical as the temperature in Denver can fluctuate up to 70 degrees in a single day, causing the stadium's structure to expand and contract.

The water resistance, adhesion and elasticity of the acrylic Noxyde™ formula will prevent corrosion, making it virtually unaffected over a lengthy period of time. Additionally, Noxyde™ is resistant to long-term ultraviolet degradation.

The excellent adhesion characteristics allow for application to minimally prepared substrates (power tool cleaning or water jetting).

The application area didn't need to be contained, easing the preparation needed for the Noxyde™ application. And, as a result of its safe components and virtually no overspray, the stadium's builders were able to work in direct proximity to paint sprayers, further helping to speed completion of the project.

Results

Prior to the switch to Noxyde™, the stadium's construction was significantly behind schedule. With the ease of Noxyde™ one-step paint process and its minimal preparation and post-construction touch-up, the product switch to Noxyde™ played a leading role in the stadium's completion 24 days ahead of schedule. The cost-savings that resulted from the switch to Noxyde™, combined with the reduction in man-hours needed to complete the task, was one of the contributing factors which delivered the project approximately \$9 million dollars under budget.

Additionally, the Stadium Management Company, responsible for the construction of Mile High Stadium, was impressed. "When we chose Noxyde™ to speed the project along, we had very high expectations," says R.M. "Dudi" Berretti, senior director, Stadium Management Company for the Denver Broncos. "I am happy to say that it performed exceptionally well and played a critical role in helping to ensure that the stadium was completed on-time and under-budget. By eliminating the prep time needed to treat the steel, we were able to immediately move forward with construction. And by applying Noxyde™ post-construction, we experienced a reduced need for touch-up application, expediting completion of the project."

Looking ahead, the long-term savings from reduced maintenance and repair for Mile High stadium will also be considerable. Noxyde™ resistance against corrosion abrasion and impacts will help it last 15-20 years, with minimal maintenance and repair.



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INDUSTRIAL BRANDS