

WOLF CREEK PUMP STATION

The construction of the Wolf Creek Pump Station in Kansas City, Kansas in 2004 was an effect of the successful development of recreation, retail and single-family growth that has spanned the area of Western Wyandotte County throughout the past decade. From the development of the VillageWest retail and entertainment destination that includes Kansas City T-Bones baseball, Cabela's and the Great Wolf Lodge indoor waterpark resort, to the Kansas Speedway which brought NASCAR and Indy Racing League events to the area in 2001, Kansas City, Kansas has become its own destination for area families and travelers throughout the country.

"This was the first of two pump stations planned for the area," said Tnemec coating consultant Scott Keilbey. "We recommended Tnemec's Perma-Shield System for the job, and it was the first time Burns and McDonnell had specified this coating system."

Following surface preparation in accordance with SSPC-SP13/NACE No. 6 Surface Preparation of Concrete, Series 218 MortarClad, a cementitious epoxy resurfacer, was trowel-applied to the wet well surface areas. Series 434 Perma-Shield H₂S, a 100% solids hybrid epoxy mortar, was then spray-transferred and trowel-applied at 1/8-inch thickness. Series 435 Perma-Glaze, a 100% solids epoxy lining, was used as a topcoat to provide additional protection.

The interior block was coated with Series 54-660 Masonry Filler, a filler for use with high-performance topcoats subject to wet conditions, corrosive fumes and chemical contact. Series 28 Tufcryn, a water-based acrylic polymer providing excellent long-term industrial exposure protection, was then roller-applied to the concrete surface.

The interior piping was prepared in accordance with SSPC-SP6/NACE No. 3 Commercial Blast Cleaning, then received two coats of Series N69 Hi-Build Epoxoline II, a polyamidoamine epoxy designed for protection and finishing of steel and concrete.

"We have built a solid relationship with the engineer throughout the years, and they trust the Tnemec brand," noted Keilbey. "The Perma-Shield System was a good fit for this project, and the engineer remains pleased with its continued performance."

FEATURED PRODUCTS

- Series 28 Tufcryn
- Series 54-660 Masonry Filler
- Series N69 Hi-Build Epoxoline II
- Series 218 MortarClad
- Series 434 Perma-Shield H₂S
- Series 435 Perma-Glaze



PROJECT INFORMATION

Project Location

Kansas City, Kansas

Project Completion Date

October 2004

Owner

City of Kansas City

Engineer

Burns & McDonnell
Kansas City, MO

Applicator

Advanced Protective Coating, Inc., Kansas
City, MO

Tnemec's Perma-Shield System was used at the Wolf Creek Pump Station in Kansas City, KS for protection against corrosive environments.

