

CITY OF ST. ROBERT

ELEVATED WATER TANK



FEATURED PRODUCTS

Series 73 Endura-Shield Series N140 Pota-Pox Plus Series 94-H₂O Hydro-Zinc
Series 700 HydroFlon

At the entrance to the U.S. Army's Fort Leonard Wood military base in Missouri, visitors may be tempted to salute the 150,000-gallon elevated water storage tank with its patriotic message and Stars and Stripes graphics featuring a fluoropolymer coating system from Tnemec. "The American flag design represents a statement of support for our military forces, which is a big part of St. Robert because so many residents are based in Fort Leonard Wood" explained coating consultant Dustin Keilbey with Midwest Coating Consultants, Inc. "It also serves as a remembrance of the 9/11 terrorist attacks at the World Trade Center in New York."

The project involved a complete recoat of the tank's exterior steel, which was prepared under containment in accordance with SSPC-SP6/NACE No. 3 *Commercial Blast Cleaning* and primed with Series 94-H₂O Hydro-Zinc, a single-component, moisture-cured, aromatic zinc-rich urethane. An intermediate coat of Series 73 Endura-Shield, an acrylic polyurethane, was applied over the primer to provide additional film thickness for corrosion resistance. The finish coat, Series 700 HydroFlon, is an advanced fluoropolymer polyurethane that offers outstanding resistance to ultraviolet (UV) light degradation providing unprecedented long-term gloss and color retention.

Interior steel was prepared in accordance with SSPC-SP10/NACE No. 2 *Near-White Metal Blast Cleaning* and primed with Series 94-H₂O Hydro-Zinc, followed by two coats of Series 20 Pota-Pox, a polyamide epoxy. Series 94-H₂O and Series 20 are both certified in accordance with NSF/ANSI Standard 61 for use on the interior of potable water tanks. Approximately 105 gallons of coatings were used on the tank's interior.

More than 157 gallons of exterior coatings in Safety Red, K.C. Blue and Tnemec White were used on the tank's exterior artwork, which was designed by Steve Long, director of public works for the City of St. Robert located near the military base. "The exterior design was all hand-painted by Ozark Applicators without using any decals," Keilbey recalled. "The applicators used a straight edge to make sure the lines were uniform and straight."

Long also designed tiger stripes for a second water tank that was completed in 2011. "The striped tank received so much attention, the City of St. Robert decided on doing the American flag design," Keilbey added.

The City of St. Robert water tank at the entrance to Fort Leonard Wood was a finalist in Tnemec's 2012 Tank of the Year competition based on its aesthetic, creative and innovative use of a Tnemec coating system. The tank was selected from more than 200 projects that were nominated for the contest.

PROJECT INFORMATION

Project Location

St. Robert, Missouri

Project Completion Date

October 2012

Owner

St. Robert Water System

Engineer

Steve Long, City of St. Robert
Public Works

Field Applicator

Ozark Applicators, LLC
Van Buren, Missouri



The St. Robert water tank was named a runner-up in the 2012 Tnemec Tank of the Year competition. The project was selected from more than 200 tanks and stands protected by a high-performance coating system from Tnemec.