

DARREE FIELDS ELEVATED STORAGE TANK

As Dublin, Ohio, prepares for its bicentennial in 2010, residents and city officials were given an early reason to celebrate with the announcement that a new 2 million gallon elevated water tank in the Darree Fields sports complex had been named Tnemec's 2009 Tank of the Year. "The tank is located in right centerfield of one of the ball diamonds," Tnemec coating consultant Dan Haines explained. "The artwork on the tank is very detailed with larger-than-life silhouettes of soccer, baseball, and hockey players against an earth tone color scheme."

The project's fabricator, CB&I, prepared the tank's exterior steel in accordance with SSPC-SP6/NACE No. 3 Commercial Blast Cleaning, while interior steel was prepared in accordance with SSPC-SP10/NACE No. 2 Near-White Metal Blast Cleaning. Both interior and exterior steel were shop-primed with Series 94-H₂O Hydro-Zinc, a moisture-cured, zinc-rich urethane that provides outstanding long-term corrosion resistance.

After the tank was constructed, the field applicator spot-primed the exterior steel with Series 91-H₂O Hydro-Zinc and applied an intermediate coat of Series 73 Endura-Shield, an acrylic polyurethane, followed by a topcoat of Series V700 Low VOC HydroFlon, a high-gloss fluoropolymer. In addition to offering outstanding ultraviolet (UV) light protection as well as gloss and color retention for extremely long-term maintenance cycles, Series V700 complies with Ohio's environmental regulation for volatile organic compound (VOC) content limit.

The tank's artwork features Series V700 applied in five different earth tone colors – Gray Oak, Stout, Clover, Ginger Mist, and Castle Gray – over an off-white intermediate coat. Haines noted, "When the contractor applied the topcoat, each of the five colors provided good coverage and hide with a single coat."

In addition, the tank's interior received two spray-applied coats of Series N140 Pota-Pox Plus, a polyamidoamine epoxy that is certified in accordance with ANSI/NSF Std. 61 for use in potable water.

Space at the base of the column is designed by URS Corporation of Columbus, Ohio, to eventually house a break room, restroom, and storage area to accommodate Dublin Parks and Recreation Department personnel and maintenance equipment. The design will also include a geothermal system that provides radiant floor heating for the occupied space. The tank is operated by Columbus Division of Power & Water (DOPW), which continuously monitors water quality from automated equipment within the tank.

FEATURED PRODUCTS

Series 73 Endura-Shield
Series 91-H₂O Hydro-Zinc
Series 94-H₂O Hydro-Zinc

Series N140 Pota-Pox Plus
Series V700 Low VOC Hydro-Flon



PROJECT INFORMATION

Project Location
Dublin, Ohio

Project Completion Date
October 2009

Owner
City of Dublin

Engineer
URS Corp. - Columbus, Ohio

Field Applicator
Neumann Company - Romeoville, Illinois

Fabricator
CB&I Inc. - Sewickley, Pennsylvania

The new elevated water storage tank located at the Darree Fields sports complex in Dublin, OH was chosen from over 100 entries as the 2009 Tnemec Tank of the Year.

