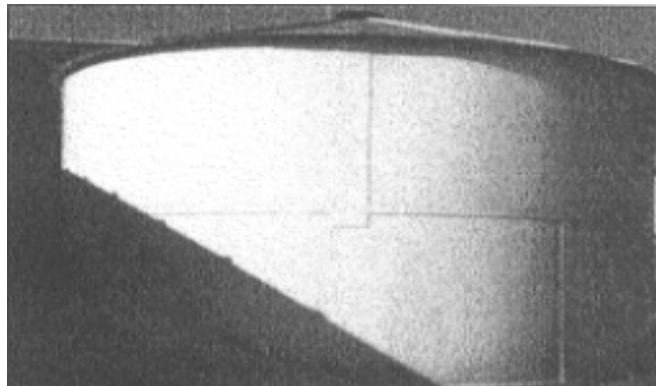


Tank Rehab in Vienna



Water Treatment Tank in the City of Vienna.

Using common duct tape and Corroccote II PW polyurethane coating, the City of Vienna was able to rehabilitate a water treatment tank that was in danger of being scrapped. In doing so, they saved close to \$60,000.

Vienna is a small city of 10,000 located in West Virginia. The tank in question is a small steel ground storage reservoir (20'X16') used for potable water treatment. Back in 1990, the Vienna Public Works officials were faced with the real possibility of having to replace this tank due to extensive corrosion and leakage.

Inside the treatment tank are several steel baffles that run the full height of the tank and thoroughly mix the water and treatment chemicals. These inner baffles were severely pitted; some had holes with a 2 inch diameter! On the outside of the tank, several of the weld seams were corroded and leaking. At the time it appeared the only viable solution was to replace the tank.

In February of 1990, Lewis Estep of Estep Painting out of Charleston, West Virginia, came up with a unique and effective solution to this problem.

Lewis Estep started by repairing the worst of the holes with welded steel plate. He then blasted the steel and placed duct tape on the back side of the remaining 30 to 40 holes. He then sprayed Corroccote II PW, a NSF 61 listed 100% solids polyurethane, to a thickness of 250 mils (1/4"). He achieved this mil build in approximately 20 passes with about 30 to 60 seconds of waiting between passes. In order to fill in the deep pitting and completely seal the tank, Lewis sprayed the balance of the baffle surfaces and tank interior with 60 to 70 mils of Corroccote II PW.

After just one week the tank was back in service. The job cost approximately \$20,000 (plus one roll of duct tape), considerably less than the estimated \$80,000 for a new tank.

In March of 1991, Bob Chauncey, the Director of Public Works for the City of Vienna inspected the tank. The results were impressive; Chauncey reported that "the tank and coating were in perfect shape". Chauncey expects the tank to last at least another 20 years before any repair work is necessary.

In reference to his experience working with polyurethane, Lewis Estep noted "In my 30 years of painting water tanks I have tried every new thing that has ever come onto the market and this polyurethane is the best stuff I have ever seen".



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