

In-Service Tank Bottom Protection

Underside Injection IDS

Zerust® Oil & Gas was awarded a project encompassing the injection of a corrosion inhibiting solution on two in-service aboveground storage tanks constructed with carbon steel on-grade with a pea gravel foundation using Zerust's Underside Injection IDS method.

The tanks had a 6" concrete ring wall along with an HDPE liner that were both in good condition for the solution application. The tank chimes were sealed by the client prior to the project.

Both storage tanks are located inside of a concrete pit. The HDPE membrane is fused throughout the entire pit. There were some leaks noticed from under the HDPE membrane during the injection process. Zerust needed to confirm that this membrane was present under the tank as well as under the dike area. After reviewing the drawings and discussing with project managers, the decision was made to proceed with injection as planned.

Roughly 300-gallons of inhibitor slurry were injected under each tank for an average slurry concentration of ~9%. PVC pipes for ER probe installation were perforated on-site and installed into the gravel through 1.25" leak detection pipes. The ends of these pipes were fitted with enclosures to secure the cables.

The project went smoothly and according to on-site personnel and the slurry injection and ER probe installation was completed in one (1) day. All ER probe readings were taken on-site, and it is recommended that monthly ER probe readings be recorded and sent to Zerust Oil & Gas for further analysis.

Corrosion Problem? Contact Zerust Oil & Gas.

