

Tank Lining with Enviroline 2405

Ar-Tech Coating Ltd.

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Background

- A oil and gas producer was putting 4 used 750 BBL insulated tanks back into service.
- Ar-Tech was selected to coat the tank floors and up 4 feet on the walls with the exception of one coated tank which would be holiday inspected and repaired. Time was critical as the first tank was already in secondary containment and was going into service by the end of the week.
- All of these tanks were in the field near Drumheller AB. The weather was dry and temperatures in the area were moderate for the time of year ranging from -15°C to 5°C (day and night) during the project.
- Prior to the start of coating, the tanks needed to be commercial blasted and integrity reviewed with the customer. In instances of severe pitting and corrosion, repairs would be conducted or the tanks shelved.
- The interior of 2 tanks (uncoated) were suitable for coating with only some minor pitting. After commercial blasting it was agreed that Ar-Tech could go ahead with coating.
- The floor of the 3rd uncoated tank was corroded and repairs were necessary. After repairs and integrity checks were completed the go ahead to coat was given.
- The interior of the 4th tank (coated) was found to be permeated with oil. The existing tank lining could not be repaired and therefore it would be recoated.

Application

The coating solution selected was Enviroline 2405, a high solids thick film epoxy designed for rapid cure in petrochemical industry applications. The heavy build of this product (16-25 mils) provided additional assurance that a holiday free coating could be achieved after one application despite pitting on the tank floors. Target mils were 15-20 on the walls and 20-25 on the floor.

Ar-Tech professionals were able to white metal blast, mask and coat a tank in one day. The second day consisted of inspection/repair and cure. The first tank was put into service as scheduled.

With a plan to work concurrently, Ar-Tech was able to complete all three tanks in 5 days, rotating a six man crew between 2 sites and maintaining round the clock heater watch.

