

Water Treatment Tanks for the Oil Sands

Ar-Tech Coating Ltd.

December 2015

Background

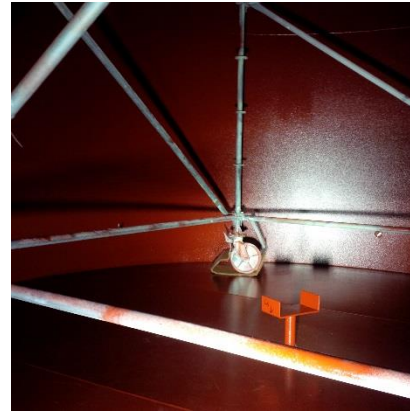
- Our customer required a coating solution for aggressive water treatment solutions in the oil sands (Kearl).
- Tank linings capable of containing a Biocide, Bio-Dispersant, an O₂ Scavenger had to be applied. The traditional approach would have been to use neoprene rubber lined tanks. Ar-Tech and Devoe/International were able to test and qualify an alternative spray on coating that would achieve a 2/3 lining cost reduction for the customer.
- Ar-Tech would apply the lining for 3 x 1000 bbl tanks in its Taber facilities.
- Because this coating is unique to Canada (very few applications) and these tanks were for a high profile facility, Ar-Tech's quality program and its facilities were put to review prior to being selected as the applicator for this program.
- The cost savings potential for a successful end use was generating significant interest at various levels up the supply chain on this project.

Application

The coating selected was Ceilcote 387 Hybricote. This material is a highly filled, thick film Hybrid Novolac epoxy. Surface preparation is a SSPC-SP5 white metal blast with a 3 mil profile. Target coating thickness is 35-45 mils which is achievable in 2 to 3 coats.



Drip pans required coating. Procedure was the same as for the tanks. Because it is a thick film coating, the coating required spark testing for holidays.



Tank exterior was to be primed with protrusions painted prior to cladding by the tank manufacturer. The tank interior was Ceilcote 387 and inspection was conducted by a third party prior to shipping.