

Bulk storage sour water tank

Case study 1996

Focus product: Enviroline® 376F-60 glass flake lining

Location: USA

Temperature: Ambient to 71 - 83°C (160 - 180°F)

Project owner: Chevron

Project size: 42.7m diameter by 17.1m tall

Background

The existing coating on the interior surface of the tank failed, with the exception of the bottom side of the floating roof. The presence of a floating roof meant there was a requirement for abrasion resistance on the walls of the tank. Furthermore, a fast return to service was of great concern to the owner because of the high cost associated with a non-operational tank.

The solution

The bottom of the floating roof was blasted and lined first. The tank was then blasted and lined with a single coat of Enviroline 376F-60 at a thickness of 60 mil. Enviroline 376F-60 has excellent impact and abrasion resistance making it ideal for tanks with floating roofs. During a Taber Abrasion test Enviroline 376F-60 exhibits a loss of only 20mg compared to 150mg for conventional solvent free phenolic epoxies. Furthermore it is possible to return to immersion service within 14 hours of application, therefore the customer was able to minimise the time the tank was out of operation.



High temperature resistant

Solvent free Enviroline 376F-60 provides long term protection for a variety of cargoes including bio-diesel, crude oil and hydrocarbon water mixtures up to 90°C (194°F). Enviroline 376F-60 also offers good cathodic disbondment resistance, making it ideal for protecting buried pipelines and tank bottoms.

Conforms to API 652 / 653

Enviroline 376F-60 conforms to API 652 / 653 guidelines, allowing inspection intervals up to 20 years, minimising downtime. At installation, the thick film reinforced lining is applied as a single coat without the need for specialist chopper guns.

