Tank base seal on oil storage tank

ID: 9525

Industry:	*Oil & Gas*	Customer Location:	*Scotland*
Application:	*GSS-Gaskets, Seals and Shims*	Application Date:	*May 2020*
Substrate:	*Carbon steel*		
Products:	*Belzona 3131 (WG Membrane),Belzona 3921 (GSC Surface Conditioner),Belzona 6111 (Liquid Anode)*		

Problem

A large diameter oil storage tank had a seal around the annular rim. Movement & exposure to the elements had degraded this existing seal to the point where it not longer provided any protection from water penetration underneath the tank. A flexible system with excellent bond strength to multiple substrates was required to solve the issue.



Tank farm overhead



Belzona 3921 applied & 1st coat of Belzona 3131



1st coat of Belzona 3131



Completed application

Application Situation

The existing seal had failed due to age & UV exposure. Hot works were not permitted in the area due to the tank cargo. By using the Belzona solution the customer gained a long term preventative maintenance system that could handle the movement of the tanks, UV exposure & cope with the complex geometry around the tank.

Application Method

The full tank circumference was grit blasted to SA2.5 & 75 microns in a 600mm band from tank wall to concrete base. Two coats of Belzona 6111 were first applied, then Belzona 3921. Following the recommended tank base sealing system bridging tape & foam backer rod were used to extend the bond line over the void between rim & concrete base. Belzona 9311 was then applied with Belzona 3131 to complete the system.

Belzona Facts

Using this system provides long term protection. The flexibility of the Belzona membrane means it can cope with the movement of the tank as the fluid level inside rises & falls. The ability of the Belzona system to bond seamlessly to metal & concrete is key in this application.

This application was checked in March 2026 & is still performing perfectly.

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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