Belzona Seals Sump For BWON

ID: 10163

Industry:	*Chemical & Petrochemical*	Customer Location:	*Houston, TX*
Application:	*TCC-Tanks and Chemical Containment Areas*	Application Date:	*July 2024*
Substrate:	*Carbon steel*		
Products:	*Belzona 1161 (Super UW-Metal),Belzona 1212,Belzona 1221 (Super E-Metal),Belzona 3121 (MR7),Belzona 5815,Vapor Abrasive Blasting*		

Problem

This sump was leaking vapors, creating operational and environmental concerns for the refinery. The emissions increased the risk of regulatory non-compliance and potential BWON fines, making a prompt and reliable repair necessary. Restoring the sump's integrity was critical to eliminating vapor leaks, maintaining compliance, and ensuring safe, uninterrupted operation.



Sump before. Customer had a contractor apply a cheap sealing compound that did not work.



Sump after Belzona Application.



Sump after 16 Months in service.

Application Situation

This sump was leaking vapors despite multiple previous repair attempts to seal the affected areas. The persistent emissions created significant environmental and operational concerns, exposing the customer to the risk of substantial regulatory fines if the sump could not be effectively sealed. A durable, long-term repair solution was therefore required to eliminate vapor leakage, ensure compliance, and maintain reliable operation.

Application Method

We were able to vapor blast the existing repair and then create the clean profile we needed. Applied Belzona 1212/1221 around the areas that were leaking, then sealed the remaining with Belzona 1161. We then did 1 coat of Belzona 5815 and another coat incorporating Belzona 9371. Then a topcoat of Belzona 3121.

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

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Belzona Facts

This was the second sump successfully sealed for the customer using the same repair approach. The positive results led to additional opportunities, and to date, a total of twelve sumps have been repaired. By eliminating vapor leaks and maintaining environmental compliance, the customer avoided significant potential regulatory fines and achieved substantial cost savings while improving operational reliability.

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