

BELZONA REPAIRS CORRODED TANKS

ID: 5168

Industry: Mining & Quarrying
Application: TCC-Tanks and Chemical Containment Areas
Substrate: Mild Steel
Products: * Belzona 1161 (Super UW-Metal) Belzona 1111 (Super Metal),

Customer Location: Aggregate Manufacturer, Chelmsford
Application Date: July 2014

Problem

The tanks have a sensor on top for flow and level readings. They sit on an upstand with a bolted flange. The upstands had been eaten away by the corrosive fumes from the hot bitumen. They were holed through and the gases from the tanks were venting to the atmosphere.



Photograph Descriptions

* 1 & 2. Views showing the degree of corrosion present 3 & 4. Completed applications ,

Application Situation

Storage tanks for molten bitumen

Application Method

The repairs were carried out in accordance with Belzona System Leaflet TCC-1. After preparing the corroded substrate, bridging tape was applied to span the holes so that product did not fall into the tanks. Three 4mm steel plates were bonded around each upstand before overwrapping with further Belzona incorporating Reinforcement tape.

Belzona Facts

It was not possible to carry out any welding due to the explosion risk. Belzona offered the required level of heat and chemical resistance to the corrosive fumes. The only other option was to replace all the tank lids but this would have incurred a tremendous cost.

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

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