

Belzona Lines High Temperature Ethanol Vessel

ID: 8449

Industry: Chemical & Petrochemical
Application: TCC-Tanks and Chemical Containment Areas

Customer Location: Refinery, Scotland
Application Date: November 2020

Substrate: Mild Steel

Products: * Belzona 1511 (HT Metal) ,
* Belzona 1593 ,

Problem

Limited downtime was available to complete the repairs. Cladding with a noble metal would have taken a prohibitive amount of time & cost many times the Belzona solution.



Photograph Descriptions

- * 1 - Vessel external ,
- * 2 - Belzona 1511 applied to areas of weld overlay ,
- * 3 - Belzona 1593 first coat ,
- * 4 - Belzona 1593 second coat ,

Application Situation

A vessel containing Ethanol, Diethyl Ether & Ethylene in operation at high temperature was experiencing corrosion & wall thinning in service. A corrosion resistant lining was required to protect the steel substrate in service.

Application Method

The vessel was grit blasted to SA2.5 & 75 microns. Any pitted areas were then filled with Belzona 1511. Areas where weld overlay had been applied in previous years were also faired using this paste grade. Belzona 1593 was then applied as a two coat system. Frost blasting in between coats was utilised to mitigate any adverse environmental effects during the application. This was completed in accordance with Belzona System Leaflet TCC-05.

Belzona Facts

Following the works the vessel was post cured at 50°C using external heat blankets. This meant the time between application & the vessel being fit for service was kept to a minimum.

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

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