

## BELZONA LINES HIGH TEMPERATURE ETHANOL VESSEL

### CUSTOMER

Refinery, Scotland

### APPLICATION DATE

November 2020

### 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.

### 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.

### PRODUCTS

Belzona 1511 (HT Metal)

Belzona 1593

### SUBSTRATE

Mild Steel

### 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.

### PICTURES

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



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ISO 9001:2008  
Q 09335  
ISO 14001:2004  
EMS 509612

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