

NaOH Vessel lined with Belzona 1391S/T for large Petrochemical site

ID: 10193

Industry: Chemical & Petrochemical

Customer Location: UK

Application: TCC-Tanks and Chemical Containment Areas

Application Date: January 2026

Substrate: Carbon steel

Products: Belzona 1111 (Super Metal), Belzona 1391S, Belzona 1391T, Accessories, Belzona 9111 (Cleaner Degreaser)

Problem

Far over its lining renewal date, the tank had to remain empty. This was preventing chemicals being stored in a way that allowed for other vessels to be emptied for inspection and further renewal works on their linings. The tank had been left with no lining at all and could not be put back into service until a full internal lining had been applied, as well as nozzles leading into the vessel.



Taking measurements within the vessel on primary visit of the tank. The image provides a rough view of the diameter of the vessel, including some of the man way / nozzles requiring coatings too.



Another internal view of the vessel, highlighting the the weld joints and rough idea of length of the vessel.



Following application with some hand applied remedial area already coated.



A further view following application highlighting further remedial areas that were going to be coated using 1391T.

Application Situation

The Belzona lining offered quick turnaround and return to service, something the site had needed for the previous couple of years. This had become essential for the site to provide further maintenance checks on its sister tanks in the vicinity. Given its area on site a quick preparation and application service was required, given our expected return to service time frame, Belzona was selected as the best option as a trusted product range already used extensively on site.

Application Method

The vessel was heated to maintain constant environmental conditions. The vessel was grit blasted to a profile of >75 micron average at a cleanliness of SA2.5. Spray application was required with stripe coating and hand applied remedial works following full lining.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

www.belzona.com

**BELZONA**
Repair • Protect • Improve

All nozzle and man ways were hand applied.

Belzona Facts

Although alternative products and application services were considered, the Belzona complete solution was chosen due to a long standing trust of the products and application team. The completion of lining has prevented future potential failures on the sites other tanks due to not having excess tank space for emptying other tanks for inspection for maintenance.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

www.belzona.com

