# **BELZONA PROTECTION INSIDE AND OUT!**

ID: 406

Industry: Oil & Gas

Application: TCC-Tanks and Chemical Containment

Areas

Substrate: Carbon Steel

Products: \* Belzona® 1111 (Super Metal),

\* Belzona® 4311 (Magma CR-1) ,

\* Belzona® 4341 (Magma CR-4), \* Belzona® 5111 (Ceramic Cladding),

\* Belzona® 6111 (Liquid Anode),

#### **Problem**

Internal corrosion due to contact with HCL (hydrochloric acid) 30-36% had caused severe corrosion on the walls, nozzles, fi ttings, etc. of the tanks. The exterior of the tanks had been damaged from atmospheric corrosion.







Customer Location: Oil Company - Mexico

Application Date: December 2003



## **Photograph Descriptions**

- \* Extent of the corrosion due to the effects of the hydrochloric acid coupled with hydrocarbons and heat. ,
- \* Nozzles coated with Belzona® 4311 or Belzona® 4341, depending on operating temperatures. ,
- \* Pinhole detection being carried out over the Belzona coating system.,
- \* Exterior view of the tank coated on the outside with Belzona® 6111/Belzona® 5111.,

## **Application Situation**

Portable Acid Tanks for Oil Well Injection.

## **Application Method**

Application was carried out in accordance with a modified version of Belzona Know-How System Leaflet TCC-5.

#### **Belzona Facts**

Failure of vinyl ester coating forced customer to bring the tanks out of operation every 4-6 months. The Belzona solution allowed for the rebuilding of the damaged areas with Belzona® 1111. Depending on the operation temperatures of the tanks, either Belzona®

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ISO 9001:2015 Belzona products are
FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

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4311 or Belzona® 4341 was used as the coating material. Belzona® 6111/5111 was used on the exterior of the tanks.		
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