BELZONA PROTECTION INSIDE AND OUT!

ID: 406

Industry:	*Oil & Gas*	Customer Location:	*Oil Company - Mexico*
Application:	*TCC-Tanks and Chemical Containment Areas*	Application Date:	*December 2003*
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.



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®

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

Belzona products are manufactured under an ISO 9000 Registered Quality 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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