

# BELZONA PROTECTION INSIDE AND OUT!

ID: 406



## PROBLEM

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

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

## INDUSTRY

Oil & Gas

## LOCATION

Oil Company - Mexico

## APPLICATION DATE

December 2003

## PRODUCTS

Belzona 1111 (Super Metal)  
Belzona 4311 (Magma CR-1)  
Belzona 4341 (Magma CR-4)  
Belzona 5111 (Ceramic Cladding)  
Belzona 6111 (Liquid Anode)

## SUBSTRATE

Carbon Steel

## PHOTOS

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

For more examples of Belzona Know-How in Action, please visit [khia.belzona.com](http://khia.belzona.com)

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

[www.belzona.com](http://www.belzona.com)

