

BELZONA REPAIRS FLANGE AND OFFERS PROTECTION AGAINST CORROSION

ID: 9506



PROBLEM

An RTJ flange at a petrochemical plant was exposed to high salt and H₂S content from the pumping activities, leading to a loss of substrate and subsequent leakage.

APPLICATION SITUATION

This RTJ flange facilitated the passage of water produced at 50°C and 90 kgf/cm².

APPLICATION METHOD

After hydro-blasting with ultra high pressure for decontamination, salinity measurement and abrasive blasting were performed on the flange surface to achieve the SA 2 1/2 standard.

The application was then carried out in accordance with Belzona Know-How System Leaflet VPF-9 and VPF-13 to restore the flange profile.

BELZONA FACTS

The flange was subjected to a pressure of 150 kgf/cm² and this application method was approved to be used on all flanges in the station. There was no need to replace the flanges with new ones to stop the leaks. This repair solution helps improve efficiency in the field and environmental preservation.

INDUSTRY

Chemical & Petrochemical

LOCATION

Petrochemicals, Brazil

APPLICATION DATE

August 2015

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1321 (Ceramic S-Metal)
Belzona 9411 (Release Agent)

SUBSTRATE

Carbon steel

PHOTOS

1. Damaged flange face due to high salt and H₂S content
2. Surface preparation on the groove
3. RTJ groove shaping
4. Flange face repair complete and ready to put back in service

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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

www.belzona.com

