

Corroded flange area rebuilt with Belzona

ID: 8853

Industry: Chemical & Petrochemical

Customer Location: Scotland

Application: VPF-Valves, Pipes and Fittings

Application Date: July 2022

Substrate: Carbon steel

Products: Belzona 4331 (Magma CR3), Belzona 9411 (Release Agent)

Problem

Welding in the area was not feasible due to the proximity of a mechanical seal & the depth of the metal loss



Corroded area around mechanical seal



Close up



Area prepared & wetted out with Belzona 4331



Belzona 4331 filled to replace the lost metal

Application Situation

A mild steel flange section at the top of a vessel had become corroded due to leaking acetic acid. A repair was required to reinstate the lost metal & provide future protection.

Application Method

The corroded area was prepared using power tools to achieve a surface profile. It was degreased & Belzona 9411 release agent was applied to the bolts that fitted around the mechanical seal housing. Belzona 4331 was then used to wet out the area before being poured in to fill the areas of metal loss.

Belzona Facts

The repair was carried out in one day. It was low hazard to the plant & personnel due to the cold application. This repair is much more corrosion resistant than the original mild steel, whilst also providing chemical resistance against the acetic acid.

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

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