

A Small Hole Can Cause Big Problems, But Belzona Provided The Solution

ID: 8505

Industry: Chemical & Petrochemical
Application: VPF-Valves, Pipes and Fittings
Substrate: Carbon Steel
Products: * Belzona 1511 (Super HT-Metal) ,
* Belzona 1392 (Ceramic HT2) ,

Customer Location: Petrochemical Plant - Southeast Texas
Application Date: 05/23/2021

Problem

The hole was below the fill line in the carbon steel vessel that was operating at 7-10 PSI with a designed temperature range between 120-140C. The customer needed an immediate solution on a Saturday and within 7 hours of the call a Belzona crew was onsite to repair the nozzle. Plant maintenance had placed a hose clamp with rubber patch over the hole and this was included as a defect in the final repair design.



Photograph Descriptions

- * 1 - Vessel location ,
- * 2 - Through wall on Weld ,
- * 3 - Finished Job #1 ,
- * 4 - Finished Job #2 ,

Application Situation

A hole in a weld developed due to Corrosion Under Insulation on nozzle of an Acrylic Acetate vessel. The plant needed a solution to get them 3-4 months of service until a turnaround without losing any production time.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet VPF-11. The repair area was prepared using spark free vapor blast and tools to clean and roughen the substrate to a near white SSPC SP10 finish. The repair was done in-situ while the vessel was still in operation. Belzona 1511 was used to build up around the hose clamp to achieve a smooth surface for final repair.

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
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Belzona 1392 with a reinforcing cloth was then used to wrap the entire nozzle and onto the vessel body with a final coat of 1392 over the entire repair.

Belzona Facts

With a quick response and a fast quality repair Belzona saved the plant from an unplanned outage and hours if not days of down time compared to a conventional nozzle replacement.

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