Stress crack corrosion repaired on interior of reactor

ID: 10182

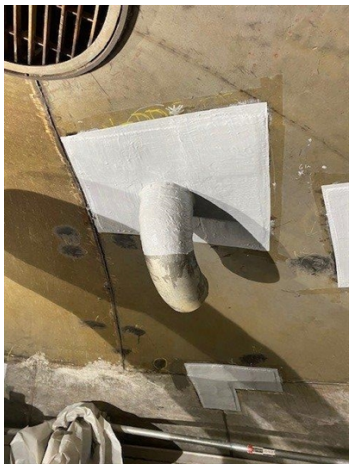
Industry:	*Chemical & Petrochemical*	Customer Location:	*Pasadena Tx*
Application:	*TCC-Tanks and Chemical Containment Areas*	Application Date:	*August 2020*
Substrate:	*Stainless-steel*		
Products:	*Belzona 1511 (Super HT-Metal),Belzona 1983 (SuperWrap II),Belzona 5111 (Ceramic Cladding),Belzona 5811 (Immersion Grade)*		

Problem

Customer was seeing stress, crack corrosion on the internal weld seems of their reactor, as well as pitting on the welds.

Stress, crack corrosion on welds around nozzle.

Area was blasted with aluminum oxide and Super Wrap II applied.



SuperWrap II was top coated with Belzona 5811 and 5111.

Secondary area completed with SuperWrap II and top coated with Belzona 5811 and 5111.

Application Situation

Welding on the stainless steel was only furthermore enhancing the cracking. The customer needed a cold solution that could stand up to the temperature of the reactor as well as process conditions.

Application Method

Each weld seem and area around the weld seem was blasted with aluminum oxide to provide a 3 to 4 mil profile on the stainless steel substrate.

Belzona Facts

The alternative to weld had obviously failed next steps or two replace reactor. Replacement was not feasible due to timeframe as well as extreme cost.

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

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

www.belzona.com

BELZONA® Repair • Protect • Improve

Copyright © Belzona International Limited 2026