

Process Tank Shell Crack Leakage

ID: 9508

Industry: Chemical & Petrochemical

Application: TCC-Tanks and Chemical Containment Areas

Substrate: Carbon steel

Products: Belzona 1511 (Super HT-Metal), Belzona 1983 (SuperWrap II)

Customer Location: Runcorn Liverpool

Application Date: August 2024

Problem

The customer has a horizontal crack on the shell of a process tank which is leaking.



Manual preparation of the C.S. tank shell removing all contaminants and creating a cross-hatch profile for adhesion.



The cracked steel shell was caused by a knock on the nozzle which created an impression and cracked horizontally. The crack was terminated by drilling a small hole at the end of the crack.



mixed and applied Belzona 1511 Hi-temp, filler to smooth over the prepared area in readiness for the application of Belzona 1983 SuperWrap II



The completed SuperWrap II (1983) patch bonded in place over the Belzona 1511 and onto the steel Tank Shell.

Application Situation

Should the customer not have chosen the Belzona repair they would have to shut the tank down completely, burn out the defective plate and weld a new plate onto the shell, re-weld a new nozzle in place (Hot Work) a very costly operation.

Application Method

The tank shell was cleaned and the surface prep, grinding with the cross-hatch method to create an acceptable profile, Belzona 1511 was mixed and applied by spatula, followed by an application of SuperWrap II.

Belzona Facts

Termination of tank shell cracks by drilling a small hole, filling the crack and surrounding area with Belzona 1511 prepares the job without any hot work, followed by SuperWrap II cold bonding technique.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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FS 695214
ISO 14001:2015
EMS 695213

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