

Repairing a leaky crack in a hot oil system

ID: 9691

Industry: Chemical & Petrochemical

Customer Location: Guelph, Ontario

Application: VPF-Valves, Pipes and Fittings

Application Date: October 2024

Substrate: Carbon steel

Products: Belzona 1221 (Super E-Metal), Belzona 1511 (Super HT-Metal)

Problem

Customer had a crack in their hot oil system which developed a small leak. The crack was around a 90-degree elbow and during operation, the system will be as hot as 170C (338F) and had a pressure of 40 psi.



Substrate after surface preparation.



Sealing with Belzona 1221.



Rebuilding with Belzona 1511.



Entire area covered with Belzona 1511.

Application Situation

The customer had already tried to repair the leak with a different competitor product but with no success. They contacted their trustworthy contractor to see what solution they could offer and they reached us as we had already completed a few repairs for them in the past.

Application Method

The oil was still seeping at the moment of application, so we needed to stem the leak first. Thus, after doing surface preparation we stemmed the leak with Belzona 1221, thanks to its fast-curing properties. Then we proceed to do a few wraps of Belzona 1511 with Belzona 9341.

Belzona Facts

The customer was very pleased with the performance of our products. At the beginning he was skeptical because he had tried a similar solution in his eyes without much success. We followed up a month after the repair was completed and the leak was still sealed with the Belzona solution.

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ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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