

Vacuum Steam Pipework repairs with Belzona SuperWrap II

ID: 10306

Industry: Chemical & Petrochemical

Customer Location: United Kingdom

Application: VPF-Valves, Pipes and Fittings

Application Date: July 2026

Substrate: Stainless-steel

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

Problem

Through wall defects had appeared in the low pressure steam system. These defects were around flanges & tee pieces. The geometry meant traditional repair methods would be very challenging. The thin wall of the pipe ducting meant welding was out of the question.

This system runs at partial vacuum pressures so the leaks were sucking in air & causing the pressure to rise - this was affected production. A system was required to seal these leaks in a 24 hour shutdown period.



Close up of leaking areas



Leaks around flange



Completed repairs



Application Situation

By using the Belzona SuperWrap II system the repairs could be completed & cured within 24 hours. This system offers a solution that can be contoured to difficult geometry. When cured the SuperWrap II system has a high strength, stiffening these defective areas to protect against further damage.

A x4 wrap system was used for the repairs. The system was applied on a standard basis.

Application Method

The defective areas were first prepared to SSPC-SP11 using an MBX Bristle Blaster. Belzona 1511 HT Metal was used to fair any defects. Belzona 1983 Superwrap II was then applied as a patch system to reinforce the defects.

Belzona Facts

Belzona systems had already been applied around several parts of this plant & was trusted to carry out an effective repair procedure.

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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