

VACUUM STEAM PIPEWORK REPAIRS WITH BELZONA SUPERWRAP II

ID: 10306



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.

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.

INDUSTRY

Chemical & Petrochemical

LOCATION

United Kingdom

APPLICATION DATE

July 2026

PRODUCTS

Belzona 1511 (Super HT-Metal)
Belzona 1983 (SuperWrap II)

SUBSTRATE

Stainless-steel

PHOTOS

1. Close up of leaking areas
2. Leaks around flange
3. Completed repairs

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