

Superwrap II repairs on large diameter cooling water pipe

ID: 9831

Industry: Chemical & Petrochemical

Customer Location: Scotland, UK

Application: VPF-Valves, Pipes and Fittings

Application Date: May 2025

Substrate: Carbon steel

Products: Belzona 1161 (Super UW-Metal), Belzona 1981 (SuperWrap II)

Problem

A cooling water pipe had several through wall defects. These had come from years of erosion & corrosion. The site depended on this pipe for production.



Leaking area on bend



Close up of defects



Wrap applied and consolidated



Completed repair

Application Situation

Limited downtime was available for the repair & there were some restrictions around pipe support plinths. The piping system operated at 20 degrees C & 5 bar.

Application Method

The pipe was prepared using an MBX Bristle Blaster to the SSPC SP-11 surface preparation standard. More defects appeared during this process. All of the defects were plate bonded using pre fabricated Superpatch plates & Belzona 1161 UW Metal. Belzona 1981 was then applied & consolidated to reinforce these areas.

Belzona Facts

These repairs were completed in one day. Following this the system could return to service after the 24 hour cure period - this greatly helped the plant.

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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