

Belzona stops a leak and strengthens a pipe.

ID: 8685

Industry: *Marine*
Application: *VPF-Valves, Pipes and Fittings*
Substrate: *Steel*
Products: ** Belzona 9611 ,*
** Belzona 1212 ,*
** Belzona 1111 ,*
** Belzona 9341 ,*

Customer Location: *NW Washington*
Application Date: *July 2021*

Problem

There was a fair-size hole and a large thin-wall area on the elbow of a 30" circulation pipe on a sea vessel. The hole was located where the pipe passed through a bulkhead at the very bottom of the vessel.



Photograph Descriptions

- * 1. Close pictures of the hole. ,
- * 2. The Belzona mixing board strapped in place. ,
- * 3. Belzona 1212 and doubler plate. ,
- * 4. Application complete. ,

Application Situation

Circulation pipe on a sea vessel.

Application Method

The area around the hole was prepared with a grinder and Belzona 9611 was used for the initial plug. Belzona 1212 was then applied with a doubler plate over the Belzona 9611 since water was still present, and a Belzona mixing board was strapped into place over the Belzona 1212 and plate until it was hard. The remainder of the 30" elbow was prepared with a grinder and washed off with solvent. Belzona 1111 was then brushed into the surface, and loaded onto the Belzona 9341 reinforcement sheet and then

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wrapped around the pipe from one end to the other. A final layer of Belzona 1111 was applied over the wrap to finish the application.

Belzona Facts

The pipe/elbow was located at the bottom of the vessel and the hole was located where the pipe passed through a bulkhead. This made replacement a very extensive and costly option which would have resulted in at least a week of downtime causing even more of a financial impact. This repair was carried out in one day while the vessel was in full operation with zero impact, and less than a fraction of the cost.

After a year and a half later, the repair is still in good condition. Customer has, since, done the same application on the other side of the same vessel as a preventive measure.

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