

BELZONA 1111 FIXES THE FIBERGLASS FLANGE

CUSTOMER

Marine Industry, S.W. Washington

APPLICATION DATE

May 2015

APPLICATION SITUATION

24" fiberglass flange on a pump system with two 600hp pumps that pump water into the silt at the dock to keep the bay open for freight ships. It is located underneath the dock and is run on a daily basis.

PROBLEM

Cracks appearing in the flange and leaking water when the system was pressurized.

PRODUCTS

Belzona 1111 (Super Metal)

SUBSTRATE

Fiberglass

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet VPF-9. The ends of the cracks were located and drilled through to terminate the crack. The cracks were worse than originally thought, actually cracking into three different areas. The cracks were then drilled every 1" and V'd out. A thin, mild steel plate was fit to the inside of the pipe with holes drilled in it as well matching the pipe. Both the steel plate and fiberglass pipe were prepped by grinding where Belzona 1111 was to be applied. Belzona 1111 was mixed and applied to the fiberglass pipe, carefully pushing it into the crack and holes. The steel plate was mounted inside the pipe and mounted with bolts and then covered with a thin layer of Belzona 1111. The exterior portion of the crack was smoothed over to allow the metal collar to still fit on the flange.

BELZONA FACTS

Less than 1Kg of Belzona 1111 was used for this repair and it was completed in half a day. The alternative was \$30,000.00 USD and several days labor to replace an entire 10' section of this pipe. Belzona once again is the best way to go.

PICTURES

1. Preparing the area to expose the crack
2. Drilling and V'ing the crack
3. Steel plate fitted and drilled
4. Completed application, inside and outside



1.



2.



3.



4.

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