

# BELZONA SAVED HAWSE HOLES OF A FISH PROCESSING VESSEL

ID: 7724

Industry: Marine

Customer Location: Washington, USA

Application:

Application Date: June 2018

Substrate: Steel

Products: \* Belzona 1311 (Ceramic R Metal) ,  
\* Belzona 9341 (Reinforcement Tape) ,

## Problem

While the ship was at a shipyard, someone used a steel cable to secure the ship to the dock. The motion of the sea caused the steel cable to work back and forth like a saw and caused heavy damage to two of the hawse holes, one considerably worse than the other. Usually, a 3" rope is used to secure the boat, but after the damage had been done, there were sharp edges that would have frayed or even cut a rope had it been placed through the hawse hole. This presents a major problem since while the ship is processing salmon in Alaska, it must get tied up, and this could cause the ship to break loose during a bad Alaskan storm.



## Photograph Descriptions

- \* 1. Original damage to the Hawse hole. ,
- \* 2. Belzona 1311 is applied. ,
- \* 3. Hawse hole repair complete. ,
- \* 4. Hawse hole repair complete. ,

## Application Situation

Hawse hole on a 225' fish processing ship.

## Application Method

A grinder was used to remove the rust and loose material and provide a super rough finish for an optimum mechanical bond. Belzona 1311 was mixed in 3 separate batches. The first batch to fill in the deep areas and rebuild closer to the original profile on the hawse hole with the worst damage. The second batch was to repair the least damaged hawse hole. The final batch was to skim coat and finish off both locations to the proper, original profile. After allowing Belzona 1311 to cure for a short time while wearing a rubber glove, and using some soapy water, Belzona 1311 was smoothed down to ensure there would be no damage to the ropes that get used.

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ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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## Belzona Facts

The only option here would have been to totally remove the entire hawse and replace them. This would have been extremely lengthy and would have required using a torch to remove, and a welder to reattach the new hawse. This problem was noticed with less than 2 weeks before they needed to leave the dock. By using Belzona, there was no impact on the foot traffic on board from hot work areas, there was no impact on the other operation on board, and only about 1/3 of a 2 kg unit of Belzona 1311 was used. They were able to paint over it the following day and the repair is completely no longer visible.

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