

RUDDER PINTLE REBUILT WITH BELZONA 1111

ID: 6004



PROBLEM

Shaft was corroded and pitted from salt water.

APPLICATION SITUATION

Rudder pintle shaft on a 700' US Navy ship.

APPLICATION METHOD

All of the damaged areas were removed with a lathe. The surface was then prepared with the lathe to leave a super rough thread pattern to ensure a full mechanical bond. Again, using the lathe, Belzona 1111 was applied with a slow rotation. After a sufficient amount of material was applied, Belzona 1111 was allowed to fully cure and then machined to the required specifications. There was one low spot and a couple of air pockets visible, so those areas were once again abraded and a further layer of Belzona 1111 was applied and allowed to cure before the final machine cut was made. The final finish was made using emery cloth, leaving a perfect smooth finish.

BELZONA FACTS

Welding would risk warping the shaft and would have taken probably close to ten times the man-hours to complete. The actual time spent on this process was no more than 6 hours, not including cure time.

INDUSTRY

Marine

LOCATION

Portland, OR, USA

APPLICATION DATE

November 2015

PRODUCTS

Belzona 1111 (Super Metal)

SUBSTRATE

Steel

PHOTOS

1. Shaft already machined down, some damage still visible.
2. Rough cut thread pattern.
3. Applying Belzona 1111.
4. Completed application, finishing with emery cloth.

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