## **Propeller Repair and Protection**

ID: 9409

Industry:MarineCustomer Location: Seattle WAApplication:SOS-Ships and Offshore StructuresApplication Date: May 2024

Substrate: Bronze

Products: Belzona 1311 (Ceramic R-Metal), Belzona 1341 (Supermetalglide)

**Problem** 

Cavitation damage on propeller and hub









Damage to propeller

Belzona 1311 applied in areas of cavitation

Belzona 1341 grey applied as first coat

Belzona 1341 blue applied as second coat

## **Application Situation**

Vessel was in drydock for routine repairs and noticed the damage. Based on complications of removing the propeller for offsite repairs the owner looked for an alternate repair method insitu.

## **Application Method**

Blades and hub were grit blasted to a minimum of 3mil angular profile
Belzona 1311 was scrubbed into cavitation pockets then frost blasted after reaching machining stage
1st coat of Belzona 1341 gray was applied at 10mils then a 2nd coat of Belzona 1341 blue was applied at 10mils within the 24hr overcoat window

## **Belzona Facts**

This alternate repair method supported the requirements of the owner and shipyard.

