

Propeller Repair and Protection

ID: 9409

Industry: *Marine*
Application: *SOS-Ships and Offshore Structures*

Customer Location: *Seattle WA*
Application Date: *May 2024*

Substrate: *Bronze*
Products: *Belzona 1311 (Ceramic R-Metal), Belzona 1341 (Supermetalgilde)*

Problem

Cavitation damage on propeller and hub



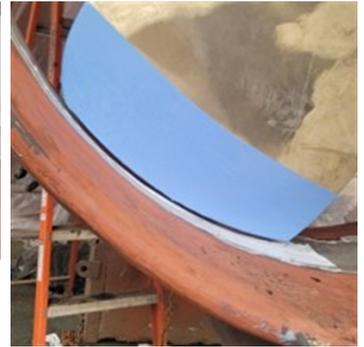
Damage to propeller



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 grey 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.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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