

Belzona Provides Anti-Cavitation Resistance to Drive Shaft

ID: 9116

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

Customer Location: *Portugal*
Application Date: *May 2023*

Substrate: *Carbon steel*

Products: *Belzona 1311 (Ceramic R-Metal), Belzona 1341 (Supermetalglide), Belzona 2141 (ACR-Fluid Elastomer), Belzona 2941 (Elastomer SP-Conditioner)*

Problem

The customer was having issues with the drive shafts on their submarines suffering the effects of cavitation. As a preventative solution, they started to protect all drive shafts with Belzona.



1.) Driveshaft after grit blasting

2.) 2 coats of Belzona 1341 applied

3.) 1st coat of Belzona 2141 being applied

4.) Final application - 2 coats of Belzona 2141

Application Situation

Anti-cavitation system being applied to a drive-shaft of a submarine.

Application Method

This application was carried out in accordance with adapted versions of system leaflets SOS-6 & SOS-2. First, the drive shaft was grit blasted to SA2.5, achieving a 75-micron profile. After surface preparation, any required areas were rebuilt with Belzona 1311 before 2 coats of Belzona 1341 were applied. Finally, Belzona 2941 conditioner was applied before 2 coats of Belzona 2141.

Belzona Facts

Belzona was selected for its excellent long-term capabilities of resisting the effects of cavitation. The customer is pleased with the Belzona system and now applies the same Belzona materials to other driveshafts within their fleets.

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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