

BELZONAS OPTIMIZED BEARING INSTALLATION

CUSTOMER

Shipbuilders in Germany and USA

APPLICATION DATE

Various since 1990

APPLICATION SITUATION

Container Ship Rudder Bearings

PROBLEM

Conventional methods of installation result in lengthy times for machining of the housings. Corrosion can still occur if stainless steels are used.

PRODUCTS

Belzona® 1211 (E-Metal)

Belzona® 1321 (Ceramic S-Metal)

SUBSTRATE

Carbon Steel

APPLICATION METHOD

The application was carried out using a modified version of Belzona Know-How System leaflet SOS-4.

BELZONA FACTS

In this case the synthetic bearing was seated in a steel carrier ring. Bonding with Belzona® 1321 prevents the risk of crevice corrosion and fretting. On this vessel the stainless steel pintle liners are also bonded to prevent galvanic corrosion. Over 30 ships in this class have used this installation method in both Germany and the USA.

PICTURES

1. Aft end of containership
2. Positioning and sealing of lower annulus
3. Injection of Belzona® 1321
4. Vent ports installed to ensure void free application



1.



2.



3.



4.

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



ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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