SKIN COOLERS ON A U.S. NAVY SUB SEALED WITH BELZONA

ID: 17

Industry: Marine Customer Location: US Navy Deep-Diving Research

Submarine

Application: SOS-Ships and Offshore Structures Application Date: October 1996

Substrate: Steel

Products: * Belzona® 1111 (Super Metal),

Problem

Coolant leaks through inner walls of skin coolers.







Photograph Descriptions

- * Shipyard appplicators learning how to use the material. ,
- * A sealed section of plate between two of the structural ribs of the submarine. ,
- * The submarine with skin coolers sealed just prior to launch from the drydock. ,

Application Situation

Skin coolers are heat exchangers for component cooling water that operate by passing the coolant fluid against the cold steel of the submarine hull. Coolant fluid is contained in a space between a thin steel plate set just inside the inner surface of the pressure hull, and the hull itself.

Application Method

Application was carried out in accordance with a modified version of Belzona Know-How Leaflet SOS-5.

Belzona Facts

Pressure testing was carried out. Each time leaks were sealed, the compressed air test was able to be conducted at higher pressures, enabling smaller holes to be located and sealed.

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

ISO 9001:2015 Belzona products are
FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

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