

# Belzona Repairs and Waterproofs a Ship Hull

ID: 1286

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

Customer Location: *France*  
Application Date: *May 2008*

Substrate: *Carbon steel, anti fouling primer*  
Products: *\* Belzona 1161 (UW Metal) ,  
\* Belzona 5831 (ST Barrier) ,  
\* Belzona 5811 (Immersion Grade) ,*

## Problem

*Lead ballast have been stored in the engine room, leading to galvanic corrosion with the hull. This led to heavy pitted areas, creating issues regarding the waterproofing of the hull. The ship has to be tugged to another dockyard for replacement of the metal frame.*



## Photograph Descriptions

- \* The ship's hull. ,
- \* Belzona 1161 applied to the pitted areas on the hull. ,
- \* The first coat of Belzona 5831 applied. ,
- \* The second coat of Belzona 5811 applied. ,

## Application Situation

Ship hull. The vessel was dry docked. However, the application could have been done at sea.

## Application Method

The application was carried out in accordance with modified versions of Belzona Know-How Systems Leaflets SOS-1 and SOS-2. The

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

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surface of the hull was prepared using high pressure water cleaning. The pitted areas were rebuilt with Belzona 1161. Upon full cure of Belzona 1161, the 1st coat of Belzona 5831 (350 microns) was applied, and finally, within the overcoat time, the second coat of Belzona 5811 (350 microns).

## Belzona Facts

Pouring concrete down inside the engine room was considered as an alternative, the Belzona solution was chosen for its safe application and easiness to apply.

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