

Belzona Solution for Deep Corrosion Pitting Repair on FWD Main Deck Area for Vessel

ID: 10254

Industry: Marine
Application: SOS-Ships and Offshore Structures

Customer Location: ABU DHABI, UNITED ARAB EMIRATES
Application Date: January 2026

Substrate: Aluminum
Products: Belzona 1111 (Super Metal), Belzona 1321 (Ceramic S-Metal)

Problem

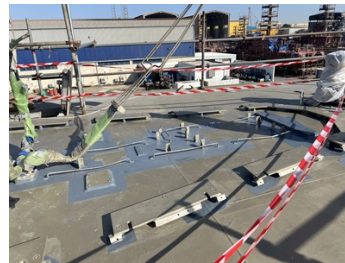
One of our marine clients reported a pitting corrosion issue on the main deck of their vessel. The damage was primarily caused by continuous exposure to harsh marine conditions, including high humidity and a salt-laden atmosphere. This accelerated material degradation, posing risks to structural integrity, safety, and operational reliability.



Surface preparation on the vessel deck in progress



Surface preparation work underway on the vessel deck



Application of Belzona 1111 (Super Metal) to fill the pitting area and Belzona 1321 (Ceramic S-Metal) coating on the vessel deck for long-term protection



Close-up view of Belzona 1111 (Super Metal) being applied to repair pitting, followed by Belzona 1321 (Ceramic S-Metal) coating on the vessel deck

Application Situation

The corrosion issue on the marine vessel deck was causing operational delays, reduced efficiency, and increased maintenance costs. Immediate corrective action was required to restore deck durability, prevent further deterioration, minimize downtime, improve safety standards, and ensure reliable, efficient, and continuous vessel operations at all times.

Application Method

1. Surface preparation was carried out using power tools to achieve an SSPC-SP 11 (Power Tool Cleaning to Bare Metal) standard, ensuring complete removal of corrosion and creation of a suitable surface profile.
2. All residues were thoroughly cleaned prior to application.
3. Belzona 1111 (Super Metal) was applied to rebuild the pitted deck areas, restore the original profile, and blend smoothly with the

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

Belzona products are
manufactured under an ISO
9000 Registered Quality
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surrounding steel.

4. For additional long-term protection, Belzona 1321 (Ceramic S-Metal) was applied as a topcoat to enhance resistance against corrosion, abrasion, and harsh marine exposure.

Belzona Facts

The client expressed high satisfaction with the performance and quality of the Belzona system applied to the vessel deck. As a result, they have decided to extend the use of Belzona solutions to additional deck areas, demonstrating their confidence in both the product performance and our application expertise.

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