

Internal Repair and Protection of two Kort Nozzles Using Belzona 1311 and Belzona 1341

ID: 9999

Industry: Marine
Application: SOS-Ships and Offshore Structures

Customer Location: Dammam
Application Date: August 2025

Substrate: Carbon steel
Products: Belzona 1311 (Ceramic R-Metal), Belzona 1341 (Supermetalgilde)

Problem

Kort nozzles were damaged by prolonged service in marine condition. Routine maintenance revealed severe metal loss due to erosion and corrosion.



Kort nozzles condition suffers severe metal loss and require Belzona application

Surface preparation prior to the repair by Belzona solution

Surface rebuilding by Belzona 1311 (Ceramic R-Metal)

Kort nozzles are further protected by Belzona 1341 (Supermetalgilde) coating.

Application Situation

During routine ship maintenance, both Kort nozzles were found to be severely affected by corrosion and erosion. The client required a fast and reliable solution to repair and protect the internal surfaces using ABS-approved products — all within a tight timeframe.

Application Method

Surface preparation was carried out to SSPC-SP10 (Near-White Metal Blast) standards, achieving a 3-mil (75 µm) surface profile through precision grit blasting. The substrate was then thoroughly cleaned and degreased using residue-free solvents to ensure maximum adhesion.

Once the surface was properly prepared, Belzona 1311 (Ceramic R Metal) was mixed and applied to restore and smooth out the pitted and eroded areas. For long-term erosion and corrosion protection, a two-coat system of Belzona 1341 (Supermetalgilde) was applied — with the second coat applied within the recommended overcoat window to ensure optimal bonding and performance.

Belzona Facts

Choosing Belzona for the Kort nozzle repair delivered substantial cost savings by eliminating the need for costly alternatives such as metal replacement or welding — both of which would have significantly extended downtime.

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
Management System.

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Client was extremely happy that both of the products are ABS approved and ABS pressure testing were carried out and passes successfully helped to gain trust and confident in the offered products and services.

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