

Erosion and Cavitation Repair of Kort Nozzle with Belzona Solutions

ID: 9522

Industry: Marine
Application: SOS-Ships and Offshore Structures

Customer Location: Lansdowne
Application Date: August 2024

Substrate: Carbon steel
Products: Belzona 1111 (Super Metal), Belzona 1341 (Supermetalglide)

Problem

The Kort nozzle was damaged by erosion and cavitation, causing it to lose material and efficiency. This wear reduced its performance, making a strong and lasting repair necessary



General look of the affected area



Closed-up look at the pits and damage of the nozzle



Close-up look at the coated areas once the job was completed



General look of the repaired equipment

Application Situation

The customer reached out to us early in the morning, urgently needing a solution for their damaged Kort nozzle. Recognizing the time-sensitive nature of the issue, we promptly provided a product recommendation along with detailed technical information, which the customer found highly satisfactory. Our fast response and efficient service allowed us to ship the Belzona products the same day. The customer received the materials and completed the repair the next day, benefiting from minimal downtime. This quick turnaround not only saved the customer significant time but also reduced costs associated with prolonged operational delays.

Application Method

Surface prep to SSPC 10 with a 3 mil profile, achieved through precision grit blasting. Then, thorough cleaning and degreasing with residue-free solvents. Once the substrate was properly cleaned, Belzona 1111 was mixed by volume and applied to smooth out pitted surfaces. Then applied the first coat of Belzona 1341, followed by a second coat within the overcoat window for optimal protection.

Belzona Facts

Choosing Belzona for the Kort nozzle repair provided significant cost savings by avoiding expensive alternatives like metal replacement or welding, which would have resulted in longer downtime. The fast turnaround—achieved through immediate product recommendation, same-day shipping, and quick application—minimized operational delays. Belzona's products delivered

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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BELZONA[®]
Repair • Protect • Improve

superior resistance to erosion and cavitation, ensuring long-lasting protection, while our comprehensive technical support ensured a smooth and successful repair.

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