

HYDRAULIC EFFICIENCY COATING IS THE BELZONA SOLUTION FOR COOLING WATER PUMP

ID: 10221



PROBLEM

Although the operating environment is generally clean, there is evidence that sediment can pass through the pump, resulting in cavitation damage in isolated areas. As the pump is exposed to an erosive/corrosive environment, a solution is required to repair the affected areas, but also to offer long term protection, whilst improving efficiency.

APPLICATION SITUATION

We were approached to offer a solution for the internal of a cooling water pump that was subject to cavitation damage due to the erosive/corrosive environment. The Distributor offered a solution that offered long-term protection and also increases efficiency, with long-term saving implications. The customer was happy with our proposal, and the pump was sent to our dedicated application facility

APPLICATION METHOD

The pump was grit blasted to minimum surface profile, and the substrate was salt tested. As there were high levels of salt on the substrate, it required a salt bath and retesting until salt levels were low. A two-coat system of Belzona 1321 (Ceramic S-Metal) was then hand applied to the internal lining of the pump.

BELZONA FACTS

The customer was happy with the solution of long-term protection and increasing efficiency, which offered long-term savings with minimal maintenance required.

INDUSTRY

Oil & Gas

LOCATION

Pembrokeshire

APPLICATION DATE

March 2026

PRODUCTS

Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Cast Iron

PHOTOS

1. Salt water environment had caused cavitation damage in isolated areas
2. The pump is grit blasted to minimum surface profile and subject to salt test.
3. After satisfactory testing, the first coating of Belzona 1321 (Ceramic S-Metal) is applied
4. Completed application of Belzona 1321 (Ceramic S-Metal), offers long-term protection and efficiency enhancement

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