

Application Focus

Erosion-Corrosion *Fluid-Handling Equipment*

Centrifugal pumps can suffer from erosion, corrosion, cavitation, and chemical attack.

If these factors are not addressed, the efficiency of the pump will deteriorate, leading to a number of costly implications including:

- Poor performance
- High operating costs
- Unplanned outage
- Shorter service life
- Frequent maintenance expense

These costly effects can be quickly and easily prevented by using the **Belzona® Fluid Handling Equipment Repair and Protection Solution**.

By utilizing a cold-applied, high-performance Belzona solution, fluid handling equipment and components can be repaired and protected from the effects of erosion-corrosion. This solution results in long term protection with maintained and improved efficiency, significantly reducing operating costs.

Belzona can provide the answer to erosion-corrosion in fluid handling equipment, which will:

- Improve efficiency and performance
- Increase service life
- Minimize downtime
- Reduce the need for expensive replacement costs
- Eliminate the dangers of repairs involving hot work



Application Case Study

“ An inspection of a cooling water pump found the impeller to be suffering from severe cavitation. The damage was so extensive that the impeller had eroded to the point of requiring complete replacement. ”

Fluid Handling Equipment Repair & Protection Solution

Belzona provided a cost effective solution to repair the impeller, prevent further deterioration, and reduce future cavitation. First, a stainless steel mesh was used to reform the vanes. After rebuilding using a Belzona® polymer repair composite to obtain original profiles, the impeller was coated to provide further cavitation resistance.

Finally, the Belzona solution returned the cooling water pump to service within three days, ensuring minimal downtime and disruption to the operations team. A replacement unit would have taken six days to arrive on-site with further machining required.

For more information, please contact your local Belzona representative.



For further detailed information refer to:

Belzona® **Product Specification**
Belzona® **Instructions For Use**
Belzona® **KNOW-HOW** In Action

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