

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 quickly and easily be 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 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. Firstly, 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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