Stuffing Box Face Rebuild with ARC 10 Coating Saves Time and Money

Waste Water Industry
ARC 10 and 860 Moldable Polymer Gasketing
ARC Case Study

Challenge

Background

A client wanted to install a seal, however the stuffing box sealing face was too corroded to affix the seal. The conventional solution would require pulling the pump and machining the sealing face. This had a quoted cost of $50K and an expected lead time of 1 – 2 weeks.

Solution

Product

The sealing face was power tool cleaned and roughened and then **Chesterton® ARC 10 Machinable Polymer Alloy Coating** was applied at approximately 100 – 180 mils. After 2 – 3 hours, the **ARC 10 Coating** was power sanded to a flat face. **Chesterton 860 Moldable Polymer Gasketing (MPG)** was then used as a thin film conforming gasket to seal the seal housing to the stuffing box face.

Results

Cost Savings, Less Downtime

- The seal was nearly leak-free on start-up and continued to be nearly leak-free after 6 months.
- Removing the pump and re-machining the sealing face, would have cost $50K and would have taken 1 – 2 weeks.
- Repairing the sealing face with ARC coatings cost less than $2K and took 12 hours.

$ = USD



Corroded stuffing box sealing face.



Chesterton ARC 10 Coating rebuilt sealing face.



ARC 10 Coating sealing face with 860 MPG sealant.

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.
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