CASE STUDY

AUTOMOTIVE INDUSTRY



ARC Industrial Coatings

Emergency Flush Water Leak Repair

Product Solution: Chesterton® ARC Glass Wrap System

Challenge

A flush water line feeding a mechanical seal slurry pump application experienced a leak at critical T-junction.

The leak occurred near a T-connection and elbow, where corrosion and erosion had weakened the pipe walls around the weld seam.

The resulting leak posed several risks:

- **Potential mechanical seal overheating**
- **Process interruption**
- **Increased safety hazards from water leakage**
- **Costly shutdown and pipe replacement**



Solution

The leak was isolated, and then the surface was power tool cleaned to SP10/Sa 2 1/2 finish. The surface was then decontaminated to allow for a proper repair. ARC 5ES was applied to repair the damaged area, followed by ARC Glass Wrap fiber to reinforce the pipe.



Results

The ARC Glass repair kit enabled the maintenance team to:

- **Leak eliminated immediately**
- **No equipment shutdown required upon ARC application**
- **Cooling system restored to normal operation**
- **Extended service life of existing piping**
- **Improved operational safety**



Return on Investment

Repair Cost	$300
Estimated Pipe Replacement Cost	$2,500
Total Estimated Savings	**$2,200**

$ = USD

Flush water leak repair saves time, money, and improves worker safety.



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