CASE STUDY

PULP AND PAPER INDUSTRY

ARC Industrial Coatings

Rapid Restoration of a Fan Pump Transition Piece

Product Solution: Chesterton® ARC CFW-CR, ARC 858, ARC SSPC-SP, and ARC SD4i

Challenge

A pulp and paper mill was experiencing severe wear on a pipeline transition piece feeding the fan pump. The component was being degraded by both the process chemicals and the abrasive pulp, resulting in significant erosion of the stainless steel surface. Due to limited shutdown windows, replacing the transition piece was not feasible within the mill's short planned downtime.

Solution

ARC CFW-CR was selected for its combination of structural strength and lightweight construction, making it ideal for rebuilding the transition piece within a limited downtime window. The component was first prepared with an abrasive blast to an SSPC-SP 10 near-white metal finish, achieving an angular surface profile of 3.0–5.0 mils. ARC 858 was then used to fill the seam, followed by the application of four layers of ARC CFW-CR to restore and reinforce the surface. Finally, alternating-color topcoats of ARC SD4i were applied to ensure complete coverage and provide long-term protection.

Results

Repairs were completed in 24 hours and successfully carried out during a short outage. The ARC CFW-CR repair saved the customer in labor and replacement costs.

MTBR/Savings

- New transition piece: $9,650.00
- Labor to replace transition piece: $24,000.00
- Cost of ARC CFW-CR/ARC SD4i: $9,442.00
- **Savings: $24,208.00**

$ = USD

Savings: $24,208

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