Tech-Taylor™ Isolation Valve

Mining/Mineral & Ore Processing — Beneficiation
ARC MX1 Coating
Case Study 115

Challenge

Issue

Rubber-lined valves were clogging every 3-4 months, requiring frequent shutdowns to clean out system. Where rubber liner failed, valve body was heavily eroded and required weld repair.

Goals

- Increase valve operational run time
- Reduce associated maintenance and operational costs

Root Cause

Highly abrasive slurry erodes valve liner, resulting in sheet delamination and eventual restriction or plugging of flow.

Solution

Preparation

- Cut out failed rubber liner; patch weld valve body; decontaminate to remove residual chlorides
- Grit blast to Sa 2.5 with 3 mil (75 µm) angular profile

Application

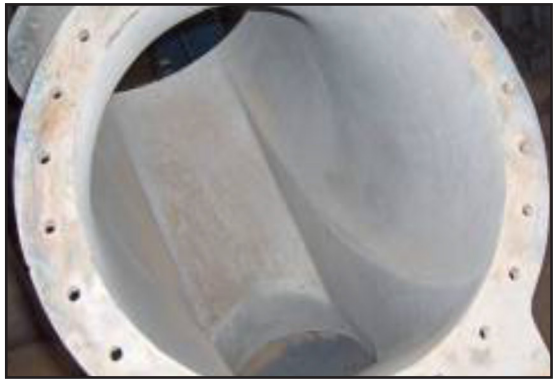
1. Apply ARC MX1 @ 240-375 mils (6-9 mm) as a monolithic liner to match with inlet and outlet piping

Results

Client Reported

- Valve life has been extended from 3-4 months to >1 year
- Plant production is no longer disrupted by plugged valves

Rubber-lined valve body suffering from rubber delamination



Properly prepared valve body

Completed valve body ready for service

A.W. Chesterton Company
860 Salem Street, Groveland, MA 01834 USA

EN23606.1
09/14

CHESTERTON
Global Solutions, Local Service.