

# Challenge

#### Issue

Reduced MTBR (22 days) of NiHard wear plate increased maintenance and spare parts carrying costs (\$27K/plate).

#### Goals

- Extend MTBR
- Reduce maintenance and spare parts carrying costs

#### **Root Cause**

Abrasive fines in acidic tailings slurry wears NiHard plates.

# Solution

### Preparation

 Grit blast to Sa 2.5 with 3 mil (75 μm) angular profile

### Application

- 1. Apply one coat ARC S2 @ 10 mil (250  $\mu\text{m})$  as primer
- 2. Apply ARC MX1 @ 500-600 mil (12-15 mm)
- 3. Apply two coats ARC S2 @ 20 mil (500  $\mu\text{m})$  as overcoat

# **Results**

#### **Client Reported**

- Pump Efficiency has been maintained for >40% longer time with ARC lined pump parts
- Reduction of spare parts inventory

Uncoated Plate Life:	22 days
Cost:	\$27,000
ARC Coated Plate Life:	32 days
Repair cost:	\$ 9,000
Net Savings:	\$16,000

MTBR extended by 45%

\$=USD



Damaged wear plate at 22 days



Applying ARC MX1 over primer coat of ARC S2



Completed wear plate ready for service

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

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