

## Challenge

### Issue

Rubber liner in discharge chute that connects ball mill discharge hopper to slurry pump is wearing exposing metal to abrasion.

### Goals

- Extend MTBR of discharge chute and reduce associated maintenance cost

### Root Cause

High volume of abrasive slurry surpasses abrasion resistance of rubber liner.

## Solution

### Preparation

- Clean surface from dust and particles
- Flapper wheel to Sa 2.5 with 2 mil (50 µm) angular profile on metal, and to roughen rubber lining surface.

### Application

1. Apply **ARC BX1** to complete internal surface at a thickness of >500 mil (12.5 mm)

## Results

### Client Reported

- ARC-coated chutes have extended MTBR to more than 3X that of rubber lined

### Repair Costs

Loss production every 2 hours:	\$ 50,000
hours: <b>ARC repair:</b>	- \$ 6,000
<b>Savings on an 2 hour outage*:</b>	<b>\$ 44,000</b>

\*Savings are based on 1 outage due to equipment failure.



External metal patch welded on chute to extend MTBR.



Rubber surface is prepared by roughening with flapper wheel.

\$=USD



Chute protected with ARC BX1 over rubber and worn metal.