

## Challenge

### Issue

A raw corn rail car unloading its chute had severe abrasive wear that required welding or replacement every 6 – 12 months.

### Goals

Increase run time to 24 months and reduce maintenance shutdown for repairs.

### Root Cause

The impact of raw corn poured out of rail car caused impact and abrasion wear on unprotected corn chute.



*Before: chute in service.*

## Solution

### Preparation

- Tack weld expanded metal to existing corn rail chute surface.
- Grit blast to surface 3+ mil angular profile.

### Application

Apply **ARC MX FG** at 3/8" nominal thickness to tack welded metal and blasted chute surfaces.

**ARC MX FG** is a ceramic-reinforced epoxy coating which protects surfaces against dry and wet slurry abrasive flow.

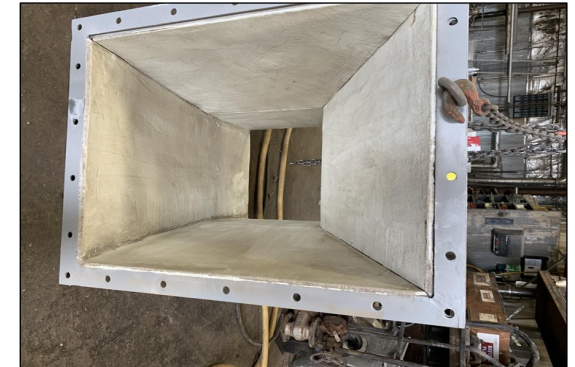


*In process: ARC MX FG being applied to prepared and tack welded surface.*

## Results

### Client Reported

Repair performed 10, 2020. Monthly inspection of chute showed no significant wear.



*After: completed chute.*