

Challenge

Issue

The polyurea lining in a clarifier peeled and wrapped around the rake arm, leading to total delamination.

Goals

Remove failing lining and recoat to provide positive seal on the internal surface.

Root Cause

Acid levels degraded polyurea lining over time.

Solution

Preparation

- Concrete and steel surfaces were high-pressure water blasted to remove failing lining.
- All surfaces were then blasted to SP10 for metal and CSP#3 for concrete.

Application

1. Cementitious grouts used to patch degraded concrete
2. **ARC S1HB** applied by heated plural component spray to a dry film thickness of 2.5 mm (80 – 100 mils)

Results

Client Reported

New lining continues to be free of flaws or failures after 11+ years.

Note: **ARC S1HB** was available for many years as a custom product, but is now available commercially.



Heated plural component used to apply **ARC S1HB**



In the process of applying **ARC S1HB**



Final finish applied to clarifier