New Lining in Effluent Dosing Pit Lasts 9+ Years

Food and Beverage — Waste Treatment
ARC S1HB Coatings
Case Study 145

Challenge

Issue

The existing bitument lining in an effluent dosing pit was failing, resulting in acid attack on exposed concrete. If waste dosing pit leaks, the plant is at risk for environmental fines.

Goals

Remove failed lining; repair and recoat to provide a positive seal on internal surfaces.

Root Cause

Acid levels degraded bitumen lining over time.

Solution

Preparation

- High-pressure water blast to remove failing bitumen lining on concrete and steel surfaces.
- Blast surfaces to SP10 for metal and CSP#3 for concrete

Application

1. Apply ARC 791 to patch degraded concrete
2. Apply ARC S1HB by heading 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 failure as of 9+ years.

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

Water blasting and grout patched concrete

*Applying **ARC S1HB** by heated plural component spray*

Finished surface

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