

# **Green Liquor Clarifier Life Extended**

Pulp and Paper Industry ARC S5 and ARC 858 ARC Case Study

## Challenge

#### Issue

The existing green liquor clarifier had sprung several leaks and severe pitting corrosion had affected the tanks primarily at their weld zones.

#### Goals

The leaks in the clarifier need to be sealed and the tanks need to be preserved for continued use.

#### **Root Cause**

Severe caustic corrosion.



Blasted wall. Verifying cleanliness and profile prior to coating.

### Solution

#### Preparation

Areas where the leaks had occurred were replaced with fresh steel. All surfaces were HP water washed and then were grit blasted to Sa 2.5 with a 75 – 125  $\mu$ m (3 – 5 mil) angular profile.

#### Application

Chesterton<sup>®</sup> ARC 858 Abrasion Resistant Rebuilding and Faring Composite was applied as a stripe coat to all weld zones. ARC S5 Coating was then spray-applied in two coats of  $375 - 500 \mu$ m/coat for a total DFT of 0.750 – 1 mm.



Stripe coating weld seams and spraying first coat of ARC S5 Coating.

### **Results**

#### **Client Reported**

The tank was lined in 2023 after a two-year evaluation. Based on prior testing and an evaluation after the first year, the tank inspection cycle has been extended from once every 3 years to once every 5 years.



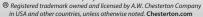
Final DFT of 0.75 - 1mm.

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

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#### A.W. Chesterton Company

860 Salem Street, Groveland, MA 01834 USA © 2024 A.W. Chesterton Company EN601971 11/24



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