

Challenge

Issue

Paint from paper machine frame peels off and effects production quality of white Kraft paper requiring repainting of machine frame every 12-18 months.

Goals

- Protect machine frame with a reliable coating
- Avoid production losses

Root Cause

Constant surface exposure to water, chemicals, vapors, and high temperature effects protective coating and leads to delamination.



Corroded structure of old paper machine

Solution

Preparation

- High pressure water wash to remove old coating
- Grit blast to Sa 2.5 and 3 mil (75 µm) angular profile

Application

1. Apply two coats of **ARC S1** in alternating colors with @ 20-25 mils (500-630 µm) total DFT



ARC S1 applied to frame during refurbishment

Results

Client Reported

- Life of ARC solution exceeds >7 years (4.5X previous coating)
- Eliminated production losses
- Halted machine frame corrosion



PM7 structure coated with ARC S1