

Machine Frame

Pulp & Paper — Paper Machine ARC S1 Coating Case Study 020

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.

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 $\mu m)$ total DFT

Results

Client Reported

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



Corroded structure of old paper machine



ARC S1 applied to frame during refurbishment



PM7 structure coated with ARC S1

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

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