

Deaereator Tank

Pulp & Paper — Pulping-TMP, CTMP & DIP ARC HT-S Coating Case Study 130

Challenge

Issue

Internal tank corrosion is limiting its service life.

Goals

- Increase equipment life
- Protect internal surface against corrosive operating conditions

Root Cause

Operation conditions with condensate (demineralized water) and temperature (230°F/110°C) are highly corrosive for the carbon steel tank.

Solution

Preparation

- Wash surfaces with hot water
- Grit blast to Sa 2.5 with 3 mil (75 125 μm) angular profile

Application

 Apply ARC HT-S in a 2 coat system @ 20-24 mils (500-600 μm) final thickness.

Results

Client Reported

| Total cost prevention: | \$124,500 |
|------------------------|------------|
| ARC Solution: | -\$ 10,000 |
| New tank: | \$134,500 |

Additional Benefits

Demineralized water quality meets specification requirements

Client Follow Up

Client plans to coat next tank

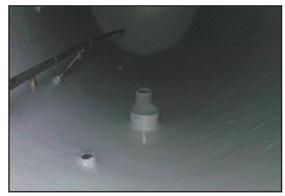
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Corroded tank internal surface



Product mixing



Coated tank internals

EN23651

11/14

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

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