

Slurry Thickener

Challenge

Issue

Previously applied coal tar coatings failed prematurely at 2 years resulting in unanticipated floor corrosion. Corrosion protection of 6 years required for maintenance cycle.

Goals

- Reduce pitting corrosion
- Extend maintenance cycle to 6 years

Root Cause

Thickener solution, containing sulfates, chlorides, and abrasive slurry, attacks unprotected steel.

Solution

Preparation

- Grit blast remove old coal tar epoxy
- $\bullet\,$ Grit blast to Sa 2.5 with 3 mil (75 $\mu m)$ profile

Application

- 1. Apply ARC S2 stripe coat to weld seams
- 2. Apply 2 coats of ARC S2 @ 15-20 mils (375-500 μm)/coat

Results

Client Reported

- ARC coating providing >6 years service life (3X of coal tar solution)
- Elimination of 2 thickener clean outs provide additional savings

Annualized Coating Solution

- Previous coal tar (material and labor): \$12K
- ARC repair (materials and labor): \$ 6K
 Cost savings per year: \$ 6K
 Savings over 6 years: \$18K

\$=USD



Slurry thickener at a major South American mine



Alternating colors of ARC S2



ARC S2 still in excellent condition

FN23593.95

09/14

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

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