

Coal Powered
Generating Station
Sulfuric Acid Tank
Relining with Ceilcote 2000

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October 2015

Background

Ar-Tech professionals were contracted to reline an existing sulfuric acid tank at a coal power generation facility. This was an internal storage tank within secondary containment so access to the tank and entrance into the tank had to be considered for safety and operations. Blast abrasive has to be removed and sufficient ventilation brought in to ensure optimum coating conditions. The environment was also dusty so surface cleanliness after blasting had to be maintained to avoid contaminating the substrate and the coating during application.



Application

Sulfuric acid containment would be considered a high risk application. Highly corrosive, damage to facilities would be extensive if there was a coating failure.

Ar-Tech contacted the coating experts at Devoe, a leading coating supplier, and determined that Ceilcote 2000 Flakeline, a 100% solids epoxy novolac designed for sulfuric acid resistance, would be the ideal coating for this project.

Blasting to SSPC-SP 5 (white metal) revealed some pitting. However, Ceilcote 2000 builds to 25 mils and the pitting was minor so it was not necessary to do any weld repairs. Stripe coating was completed on weld and nozzle areas to ensure coating penetration. The completed tank was then final inspected for proper mil thickness, holidays and sufficient cure. Declared holiday free and cured the tank was put back into service.

