

Corn Processing Plant Chemical Neutralization Tank Restoration

STRUCTURE: Pre-Neutralization Tank
 LOCATION: Wahpeton ND
 PROJECT DATE: Fall 2001
 JOB DURATION: 1 week
 CLIENT: Cargill Corn Processing
 CONTRACTOR: Vector Construction
 Group



PROJECT DESCRIPTION:

Years of chemical attack have caused significant structural damage to the concrete chemical neutralization tank at the water treatment plant of the corn processing plant. Vector Construction was contracted to develop a repair procedure to meet the long term chemical exposure of the tank while completing all work within a short shutdown window.



Work consisted of removing the existing failed concrete coating along with all contaminated concrete. All concrete repairs were completed with a fast setting engineered repair mortar so as to allow the installation of the coating system without the usual curing time of 28 days as with standard concrete repairs. Once the concrete repair had been completed a Ceilcote 505 fiberglass reinforced epoxy coating system was installed.

All work on this project involved working in a confined work space therefore additional attention to safety detail was required including air monitoring, man retrieval systems, ventilation and following proper tag out lockout procedures. All work was completed within the short window of available time.



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