

## Santan Canal Lining

**Date:** 2019

**Location:** Coolidge/Sacaton, AZ

**Advantage:** Ease of Application,  
Non-Corrosive, Reduced  
Cracking & Permeability



### Technical Specifications

**Application:** Pavement

**Fiber Reinforcement:** FORTA-FERRO<sup>®</sup> 2-1/4"

**Dosage:** 3.0 & 5.0 lb/cu yd

FORTA, in cooperation with the contractor and ready mixer, replaced specified steel with FORTA-FERRO macro synthetic fibers in the Santan Canal from Coolidge to Sacaton, AZ. The first section of the canal lining was specified with 3.0 lb/cy yd of FORTA-FERRO. In the second section, a fiber conversion was done to replace #4 @ 12" rebar with 5.0 lb/cu yd of FORTA-FERRO. Since the ready mixer and contractor were the same company, they set up their own ready-mix plant for this job and used the FORTA Big Shot fiber feeder to introduce fibers into the wet batch. Reinforcing with FORTA-FERRO has an **easy application** process while **reducing cracking and permeability** of the concrete. In addition, the fibers acted like fingers so the concrete would not collapse in the embankment. Owners were able to **save money by eliminating steel reinforcements** while making the project **non-corrosive** in the process.



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