PROJECT PROFILE

SRP CANAL LINING REPAIR

EUCLID CHEMICAL

PROJECT DATA

Location – Metropolitan Pheonix, AZ

Application – Fiber Reinforced Shotcrete

Engineer – SRP Water Engineering

Concrete Contractor – SRP

Ready Mix Producer – CEMEX and Rock Solid

Total Area – 370 yd^3 (338m^3)

PRODUCTS FEATURED

TUF STRAND™ SF
Synthetic Macrofiber

SCOPE OF PROJECT

Fiber Reinforced Shotcrete for Canal Repair

PROJECT SUMMARY

Salt River Project (SRP) has delivered water to the metropolitan Phoenix area for more than 100 years. The 131 mile (211 km) concrete lining canal system must be periodically repaired. To extend the life of the lining wall, SRP has used TUF-STRAND SF reinforcing fibers in their shotcrete repair. At a dosage of 5 lb/yd^3 (2.3kg/m^3), these synthetic macrofibers provide the required strength and crack control for the repaired sections. The speed of repair and elimination of corrosion potential have made TUF-STRAND SF an ideal solution for this shotcrete application. Using synthetic macrofibers can result in a more cohesive shotcrete mix, encouraging faster build-up with less rebound and waste. These fibers provide non-corroding, three-dimensional reinforcement and an improved crack control for the canal lining. Increased flexural toughness, fatigue endurance and impact resistance are also samong the benefits of TUF-STRAND SF.