PROJECT PROFILE

FEDEX GROUND DISTRIBUTION CENTER

EUCLID CHEMICAL

PROJECT DATA

Location – Rialto, CA

Application – Fiber Reinforcement

Engineer – HSA & Associates Inc.

Contractor – Graycor Construction

Concrete Producer – Darco Construction

Ready Mix Producer – Robertson's Ready Mix

PRODUCTS FEATURED

TUF-STRAND™ SF
Macro-Synthetic Fiber

SCOPE OF PROJECT

Warehouse distribution center constructed with synthetic macro-fiber reinforced concrete

PROJECT SUMMARY

Over the past decade, FedEx Ground has been constructing new facilities throughout North America using fiber reinforced concrete to improve constructability and to save money during construction. The specification for construction, developed by FedEx Ground's Engineering team, required a post-crack residual strength requirement of 200 psi when tested according to ASTM C1609. TUF-STRAND SF macro-synthetic fibers have been used at a dosage rate of 5 lbs/yd^3 (3 kg/m^3) for these FedEx Ground floors. In the Rialto facility in Riverside, California, over 300,000 ft^2 (27870 m^2) of concrete floor was reinforced with Euclid Chemical's premiere macro-fiber product. Hard troweling provided a flat, smooth finish and the use of fiber reinforcement reduced the construction time, provided an improved crack control and lowered maintenance for this distribution center.