



FULFILLMENT CENTER - MIDDLETON, DE

PROJECT DESCRIPTION

In May 2012, the FORTA-FERRO[®] macro synthetic fiber was used in a very large slab on metal deck project that provided a working surface for the 2nd-level order fulfillment operations for a large online retail store. Previous mezzanine projects had resulted in an unacceptable level of cosmetic cracking, and a high volume dosage of macro synthetic fiber was selected as a cost-effective potential corrective measure. The fiber was 2-1/4" long at a concentration of 0.5% by volume (7.5 lbs. / cu. yd.), and used in over 237,000 square feet of 3-1/2" composite metal deck. The fiber-reinforced concrete was pumped over 300 feet in some areas in a 4 in. line, and pumped easily after minor pump-grate corrections were performed. **To-date, only very few short, tight cracks have been reported from re-entrant corner stairwell openings, and cracking on the open deck has essentially been eliminated.**

KEY POINTS

- Superior Strength
- Mixed and Pumped Easily
- Cost Effective

DETAILS

Date: May 2012

Location: Middleton, DE

Dosage: 7.5 lbs. / cu. yd.

Fiber: FORTA-FERRO[®] 2-1/4"

Owner Type: Individual

Application: Slab-on-Metal-Deck

Contact us for more details