



MINERAL SPRING STREET RECONSTRUCTION - ORRVILLE, OH

PROJECT DESCRIPTION

Conventional practice for the City of Orrville, Ohio, street construction and reconstruction projects has been the use of conventional Welded-Wire Fabric (WWF) as the temperature/shrinkage reinforcement for their concrete pavements. In August of 2012, Orrville relied on engineering judgment to allow a macro-synthetic fiber reinforcement alternative to the 4x4-6x6 WWF reinforcement. FORTA-FERRO® certainly aided the ease of construction for the project by **eliminating the placement labor of the wire mesh, while adding to the pavement toughness, impact resistance, and crack control.** Based on steel-to-fiber calculations, project engineers specified 4 lb/ cu yd of the 2-1/4" long macro fiber as a reinforcing equivalent for this 2,700 foot long street pavement project. Conventional control-joint spacing was utilized within the 29 ft wide, 9 in thick pavement, covering almost 80,000 sq ft using almost 2,200 cubic yards of fiber-reinforced concrete.

KEY POINTS

- Added Durability and Toughness
- Reduced Cracking
- Impact Resistance

DETAILS

Date: August 2012

Location: Orrville, OH

Dosage: 4.0 lbs. / cu. yd.

Fiber: FORTA-FERRO® 2-1/4"

Owner Type: Government

Application: Pavement

Contact us for more details