



Macrofibers cost-effective alternative
to standard rebar and matt
reinforcement in concrete slab



Clow Stamping Company expansion project

Project description

An award-winning 2012 expansion project for Clow Stamping Company included a 52,000 square-foot concrete slab on ground that needs to handle considerable rack and floor loading. Engineers calculated that a dosage of 7.5 lbs/cu. yd of FORTA-FERRO® 2 1/4" macro synthetic fiber would offer sufficient loading capacity and improved crack control for the 12-foot by 12-foot joint panels at a slab thickness of six inches. The choice to use macrofibers instead of standard rebar and matt reinforcement provided considerable savings on material and labor costs.

Project date

Summer, 2012

Additional project details

Clow Stamping Company is a major manufacturer and supplier of OEM metal parts for agriculture, recreational vehicles, exercise equipment, and commercial refrigeration. The project reflected a positive partnership between the company and the design/builder, contractor, and concrete supplier. FORTA-FERRO offered no issues in buggy transport, laser-guided screeding, initial float, or final burnished finish.

Team

Owner: Clow Stamping Company, Merrifield, Minn.

Design/build: Nor-Son Inc., Baxter, Minn.

Concrete Contractor: Kasella Concrete Co., Pierz, Minn.

Ready Mix Supplier: Knife River, Sauk Rapids, Minn.

Technical assistance and on-site services: Enduracon Technologies LLC, St. Paul, Minn.

Fiber supplier and photo credit: Forta Corporation

For more information about this project, contact ARM Associate Member Larry Nelson of Enduracon at 612-865-6638.