



EUCLID CHEMICAL

## PROJECT PROFILE

# WOODPECKERS Inc. INDUSTRIAL FLOOR



## PROJECT DATA

**Application** – Low Shrinkage, Extended Joint FRC Floor

**Location** – Strongsville, OH

**Architect/Engineer** – Owner: Woodpeckers Inc.

**Contractor** – Curtis Layer Design Build Inc.

**Concrete Producer** – Osborne Medina Inc.

**Total Area** – 52,800 ft<sup>2</sup> (4900m<sup>2</sup>)

## PRODUCTS FEATURED

### TUF-STRAND™ SF

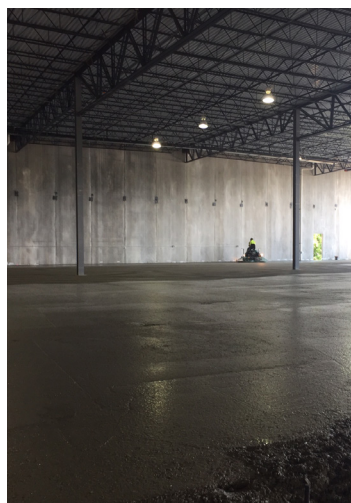
Macro-synthetic fibers

### EUCO® DIAMOND HARD™

Liquid Densifier and Sealer for Concrete

## SCOPE OF PROJECT

- Develop low-shrinkage concrete floor mixture
- Eliminate conventional reinforcement in concrete floor
- Increase joint spacing



## PROJECT SUMMARY

**PROBLEM:** Established in 1988, Woodpeckers Inc is a manufacturing company located in Strongsville, OH focusing on the woodworking industry, providing tools, routers, measuring instruments and accessories. In 2017, Richard Hummel, President, recognized the need to expand his operation to accommodate a growing demand for the high precision products produced. Due to the complex nature of equipment layout, a desire to construct a floor with extended joint spacing was necessary.

**SOLUTION:** Osborne Medina, Inc., a local ready-mix concrete producer, contacted Euclid Chemical to investigate the potential to utilize a high performance, low shrinkage, fiber reinforced concrete mixture on an 8" (200 mm) slab to replace conventional reinforcing and provide joint spacing that would coincide with column lines at 40' (12.2 m). Along with the TUF-STRAND SF macro-synthetic fibers at a dosage of 5 lbs/yd<sup>3</sup> (3 kg/m<sup>3</sup>), Euclid, recommended to the contractor, Curtis Layer, to add a slip sheet to the subgrade, provide a wet cure for 7 days and increase the saw-cut depths to allow for joint activation.