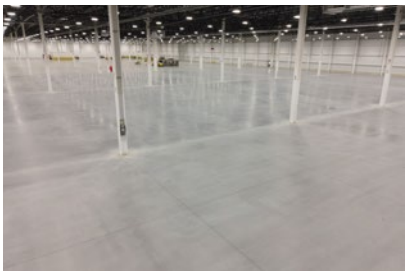
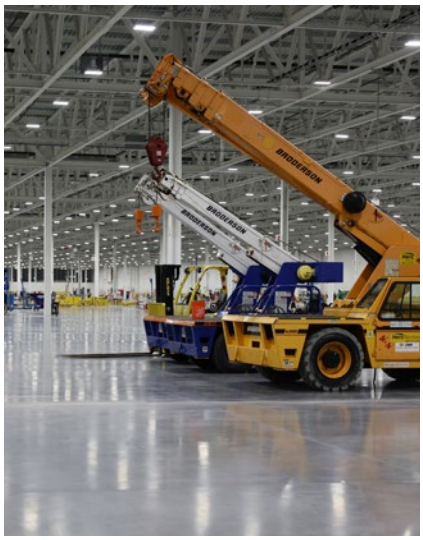
PROJECT PROFILE

# OHAP V801
# AUTO MANUFACTURING PLANT

EUCLID CHEMICAL





## PROJECT DATA

**Location** – Avon Lake, OH

**Application** – Fiber Reinforced Concrete Slab

**Engineer** – SSOE

**General Contractor** – Rudolph Libbe Group

**Ready Mix Producer** – Terminal Ready Mix

**Total Area** – 2,800,000 ft² (260,000 m²)

## PRODUCTS FEATURED

**TUF-STRAND SF**
Synthetic Macrofiber

**ULTRA SIL DC9**
Silicate Densifier for Concrete Surfaces

**EUCO DIAMOND HARD**
Liquid Densifier and Sealer for Concrete

**EUCO QWIKJOINT UVR**
UV-Resistant Polyurea Floor Joint Filler

## SCOPE OF PROJECT

- Use of synthetic macrofibers to enhance crack control and durability in a high-demand industrial floor
- Application of densifiers, curing treatments, and semi-rigid joint filling

## PROJECT SUMMARY

The OHAP V801 Automotive Manufacturing Plant expansion in Avon Lake, Ohio represents a $1.5 billion investment by a major automotive manufacturer to support commercial electric vehicle production. The project included construction of a 2.8 million ft² (260,128 m²) facility featuring a new body shop, battery assembly line, and final production space. This large-scale slab-on-ground application required a durable concrete system capable of performing under heavy loads, continuous traffic, and demanding industrial conditions.

Euclid Chemical's TUF-STRAND SF synthetic macrofiber was incorporated into the concrete design at a dosage of 6 lb/yd³ (3.6 kg/m³) to enhance crack control and improve overall slab performance. The specific fiber dosage was optimized using Euclid Chemical's TUF-STRAND Slab-on-Ground design software, a tool available to architects and engineers to support accurate, performance-based fiber reinforcement design. This approach ensured the slab met project requirements for load capacity, durability, and long-term performance.

To further enhance surface performance, ULTRA SIL DC9 and EUCO DIAMOND HARD were applied to densify and seal the concrete, increasing abrasion resistance and reducing dusting in high-traffic industrial environments. These treatments improve surface hardness and long-term wear performance, critical for manufacturing operations. Joints were filled with EUCO QWIKJOINT UVR, a semi-rigid polyurea joint filler designed to support joint edges, reduce spalling, and withstand dynamic loading conditions.