



# KTH Shelburne Facilities Expansion



2025 (phase 1)

## ABOUT THIS PROJECT:

**Market Segment:**  
General Construction

**Owner/Developer:**  
KTH Shelburne  
Manufacturing Inc.

**Products Used:**  
Xypex Admix C-500

**Ready-Mix Provider:**  
Amrize Canada

**Engineer:**  
Tacoma Engineering  
/ MTE Consultants

**General Contractor:**  
Maple Reinders  
Constructors Ltd.

**Location:**  
Shelburne, Ontario,  
Canada

KTH Shelburne Manufacturing Inc., a key supplier of automotive frame components, began a major expansion of its Ontario manufacturing campus to support new production lines and install a 400-ton stamping press. The expansion required deep foundations, concrete pits, and structural slabs designed to withstand significant hydrostatic pressure. Originally, a sheet membrane waterproofing system had been specified, but the construction team sought a more durable, integral waterproofing solution suitable for long-term industrial use.

To meet these needs, Xypex Admix C-500 was incorporated into approximately 600 m<sup>3</sup> of concrete supplied by Amrize Canada for the foundation and press pit structures. The crystalline admixture reacts with moisture to form insoluble crystals that permanently seal the concrete's pores and capillaries. This process provides self-healing of micro-cracks and integral protection against water ingress and chemical exposure common in industrial environments. Two additional phases are planned, expected to bring the Xypex Admix C-500 total usage to over 2,000 m<sup>3</sup> of concrete.

The Xypex crystalline system offered a reliable and maintenance-free alternative to sheet membranes. Its integral waterproofing technology simplified construction, reduced risk of future leakage, and provided lasting protection for the facility's subgrade structures. With successful implementation in Phase 1, Xypex is positioned as a preferred solution for future stages of the KTH expansion scheduled in 2026.

