



# Saint-Maurice Potable Water Reservoir Expansion



## ABOUT THIS PROJECT:

**Market Segment:**  
Wastewater Treatment  
& Distribution

**General Contractor:**  
Construction Thorco

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

**Location:**  
Saint-Maurice, Quebec,  
Canada

**Engineer:**  
Stantec – Quebec

**Ready-Mix Provider:**  
Béton Crête

The Municipalité de Saint-Maurice undertook the expansion of its potable water reservoir system, constructing two new reservoir units for water treatment and distribution. A key design requirement for this project was to avoid the use of traditional membranes, which are prone to degradation, detachment, and long-term maintenance issues in water containment structures.

Ultimately, the use of Xypex Admix C-500 provided a high-performance, low-maintenance waterproofing system that met the technical and operational goals of the reservoir expansion project. It also contributed to long-term cost savings and environmental compliance by protecting the quality of drinking water and ensuring the durability of the reservoirs.



Stantec engineers selected Xypex Admix C-500, an NSF 61 approved product, to provide a permanent, integral waterproofing solution by incorporating it directly into the concrete mix for the slab and walls of both new reservoir units.

The use of Xypex Admix C-500 eliminated the need for membranes entirely, reducing long-term maintenance concerns while improving construction efficiency. The crystalline technology permanently seals capillary pores and micro-cracks, resisting water infiltration, and greatly improving the performance of the concrete against freeze-thaw cycles, and chemical attacks.

