



STM Centre de Transport Bellechasse Stairwell



ABOUT THIS PROJECT:

Market Segment:
General Construction

Owner:
Société de transport de Montréal

Products Used:
Xypex Concentrate
Xypex Patch'n Plug
Xypex Megamix II

Location:
Montreal, Quebec, Canada

General Contractor:
Geroquip

The Société de transport de Montréal undertook rehabilitation work at the Centre de transport Bellechasse as part of ongoing upgrades to critical transit infrastructure. The project included the repair and waterproofing of a stairwell structure associated with parking and operational facilities serving the transit network.

The Xypex system provided a durable repair and waterproofing solution that addressed both active cracking and long-term moisture exposure. The selected approach supports reduced maintenance requirements and improved durability of the transit infrastructure serving Montréal.

The existing concrete structure experienced water ingress and cracking within the stairwell walls and surrounding concrete elements. Approximately 1,200 m² of concrete surface required treatment, along with the repair of approximately 333 linear meters of cracks. The rehabilitation required a solution capable of sealing active cracks and providing long term waterproofing within a heavily used transportation facility.



To address these conditions, a Xypex crystalline waterproofing system was specified for stairwell rehabilitation. Crack repairs and localized defects were treated using Xypex Patch'n Plug and Xypex Megamix II, while the concrete surfaces were treated with Xypex Concentrate to provide crystalline waterproofing within the concrete matrix.



When applied to the concrete surface, the crystalline technology reacts with moisture and cementitious by products within the concrete to form insoluble crystals that block capillary pores and microcracks. This reaction reduces permeability and protects the structure against ongoing water ingress.