Ottawa Ready Mix Team Delivers on Low Carbon Commitment

Project Details

Location:
Chalk River,
Ontario Canada

Timeline: 2023-2025

Volume: 38,000 m³

Concrete's Sustainability Contribution:

Heidelberg Materials Eastern Ontario Ready Mix operation is supplying EvoBuild® Silver, Controlled Density Fill to BIRD Construction for a demanding revitalization project. BIRD Construction challenged its concrete suppliers to improve the carbon footprint of the mixes for this Chalk River revitalization project, with the first significant phase calling for 38,000 m³ of 1.5 MPa CLSM. The Ottawa-based Ready Mix Sales team met frequently with project designers to understand the mix requirements and sustainability goals. Our Q.C. team developed, tested, and demonstrated a pumpable mix with a 130 kg total cementitious materials content that met the 1.5 MPa min/5.0 MPa max compressive strengths. The supplied mix meets the requirements of an EvoBuild® Silver mix, providing a 50% to 70% reduction in embodied carbon compared to a baseline CLSM mixture. This success is leading to additional work on the project.

EVOBUILD™
LOW CARBON CONCRETE

EvoBuild™ Low Carbon Concrete can help lower the carbon footprint of your project without compromising performance. Available for a broad variety of applications, our product range consists of EvoBuild™ Bronze, EvoBuild™ Silver, EvoBuild™ Gold and EvoBuild™ Zero. This range considers all of your specific targets, timelines and budget needs, ensuring there is a sustainable solution for your project.

More importantly, these solutions are stackable, meaning carbon savings can add up to different levels, as required to meet your project goals. Carbon savings can vary depending on performance requirements, haul distances, and energy use at the manufacturing facility related to local climatic conditions. However, when measured against national industry average Environmental Product Declaration (EPD)* values, our EvoBuild™ concrete mixes provide significant carbon savings for your project. These savings are supported by mix-specific, third-party verified EPDs which provide transparent and comparable information about the life cycle impact of our building materials.

Heidelberg Materials

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