Case Study



Cordova Road Re-pavement, Oshawa - 2019

Project: Cordova Road Repavement

Location: Oshawa, Ontario, Canada

Duration: July 2019 (2 day project)

Contractor: D. Crupi & Sons, Ltd.

Customer: City of Oshawa

Surface Tech Product: ACE XP Polymer Fiber™

Project Scope & Objectives

Cordova Road, a vital thoroughfare in Oshawa, Ontario, faced significant wear and tear due to heavy truck traffic from a nearby automotive manufacturing plant. In 2019, the City of Oshawa identified the need for a complete pavement removal and replacement to ensure the road could withstand ongoing use while minimizing maintenance costs.

The primary objective of the project was to extend the lifespan of Cordova Road by leveraging Surface Tech's ACE XP Polymer Fibers™. *This advanced asphalt reinforcement solution had already proven successful in previous projects within the city, making it the preferred choice for this critical infrastructure upgrade.*



What We Did

Surface Tech partnered with D. Crupi & Sons, Ltd., the paving contractor responsible for the project, to ensure the successful implementation of the ACE XP-reinforced asphalt mix. Key activities included:

Full-Depth Removal & Repaving:

The project began with the complete removal of the existing asphalt pavement. *This was followed by the repaving of the road using 865 tonnes of PG 64-28XJ asphalt mix. The mix included HL3 High Stability layers with thicknesses of 40mm, 80mm, and 50mm, designed to provide the necessary structural integrity and durability for heavy-duty use.*

Dosing & Mix Production:

Surface Tech provided expert dosing services to ensure the precise integration of ACE XP Polymer Fibers[™] into the asphalt mix. The mix was produced at D. Crupi & Sons' asphalt plant, where the team was trained and supported by Surface Tech to achieve optimal results.

Efficient Execution:

The repaving was completed over two days, with one day dedicated to laying the base course and the second day focused on the surface course. This efficient execution minimized disruption to traffic and ensured the road was quickly returned to service.

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Challenges Overcome

The primary challenge was ensuring that the new pavement could withstand the heavy loads and traffic associated with the automotive manufacturing plant. By incorporating ACE XP Polymer Fibers™, the project team was able to significantly enhance the asphalt's resistance to cracking, rutting, and other forms of wear, ensuring a longer-lasting roadway.



Cordova Road in Oshawa, Ontario, still shows no sign of wear even after three years and extreme punishment from heavy vehicles. It was this project among others over the past four years that have convinced engineers for the City of Oshawa to include ACE XP Polymer Fibers™ as a routine part of its Annual Pavement Rehabilitation Program.

Economic & Environmental Advantages

Economic Advantages:

The use of ACE XP Polymer Fibers[™] extended the lifespan of the pavement, reducing the need for frequent repairs and maintenance. This resulted in cost savings for the City of Oshawa, both in terms of immediate project costs and long-term maintenance expenses.

Environmental Advantages:

By extending the pavement's lifespan, the project minimized the environmental impact associated with asphalt production, transportation, and construction activities. The reduced frequency of maintenance also contributed to lower emissions and resource use over time.

Client Feedback & Results

The Cordova Road project was a resounding success, with the new pavement showing little sign of wear even after three years of heavy use. This outcome, along with the positive results from other projects over a four-year period, has led the City of Oshawa to routinely incorporate ACE XP Polymer Fibers[™] into its Annual Pavement Rehabilitation Program

The City's engineers have expressed confidence in the ability of ACE XP to significantly extend the life of roadways and decrease maintenance costs, making it a key component of their infrastructure strategy moving forward.

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