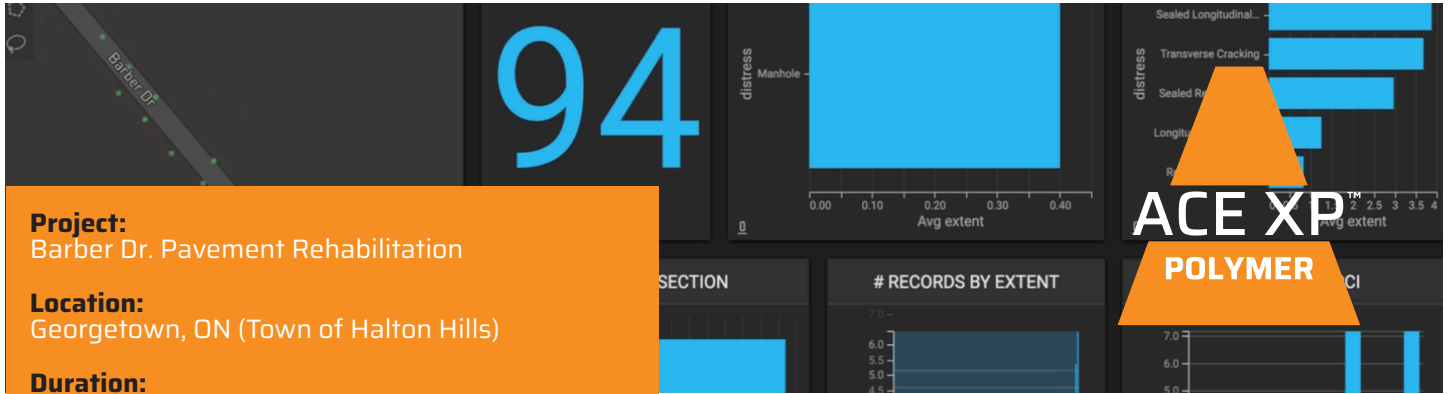


# Case Study



## Surface Tech Case Study Update 2025: Barber Dr. Pavement Rehabilitation - 6-Year Performance



### Project:

Barber Dr. Pavement Rehabilitation

### Location:

Georgetown, ON (Town of Halton Hills)

### Duration:

Original Project Date: 2019 Current Update: 2025  
(6 years post-installation)

### Contractor:

Gazzola Paving

### Customer:

Town of Halton Hills

### Surface Tech Product:

ACE XP

## Seamless Integration, Superior Results

Surface Tech collaborated closely with Gazzola Paving to implement ACE XP Polymer Fiber. A key differentiator highlighted during the initial project and proven over time is the ease of installation of ACE XP.

Unlike traditional grids that require labor-intensive on-site placement, **ACE XP fibers are introduced directly at the asphalt plant. This process requires no changes to the Job Mix Formula (JMF), streamlining operations for the contractor and eliminating the complexities and risks associated with manual grid installation.** Surface Tech provided essential dosing services, ensuring perfect integration into the asphalt mix.

Gazzola Paving's preference for ACE XP was driven by its operational advantages, finding it more profitable, less risky to install, and significantly quicker than GlasGrid. This efficiency was a major factor in convincing the Town of Halton Hills to adopt ACE XP for half of the project, showcasing the immediate benefits of the aramid fiber solution.

## The Initial Challenge

### A New Approach To Pavement Durability

In 2019, the Town of Halton Hills embarked on the Barber Dr. rehabilitation project, initially specifying traditional paving geogrid (GlasGrid) for pavement reinforcement. However, Gazzola Paving, the chosen contractor, saw an opportunity to introduce a more advanced and efficient solution: Surface Tech's ACE XP Polymer Fiber. This project was significant as it marked the owner's first experience with an Aramid fiber solution, necessitating a clear demonstration of its benefits. **The project scope included a comparative section, with approximately 4000m<sup>2</sup> utilizing GlasGrid and another 4000m<sup>2</sup> incorporating the ACE XP ARCA solution.**

### Surface Tech Contact:

312 S. Cedros Ave., S200, Solana Beach, CA 92075

+1-619-880-0265

[info@surface-tech.com](mailto:info@surface-tech.com)

[www.surface-tech.com](http://www.surface-tech.com)



# Case Study



## 6-Year Performance Highlight: Aramid Fiber Outperforms Glass Grid

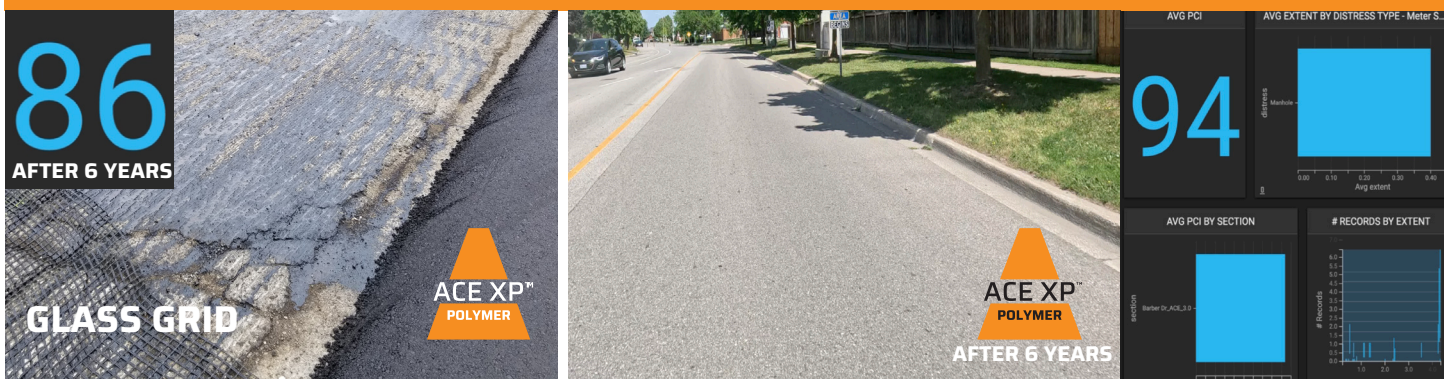
Now, in 2025, six years after the initial installation, the long-term performance data from the Barber Dr. project unequivocally demonstrates the superior durability of ACE XP Polymer Fiber. Leveraging PCI (Pavement Condition Index) data compiled and processed by Tiger Eye, we can highlight the accuracy in performance reporting, showing real data that validates the decision to use ACE XP.

**The PCI scores, measured six years post-installation, reveal a significant difference:**

**GlasGrid PCI Score: 84**

**ACE XP ARCA PCI Score: 94**

This 10-point lead in PCI score for the ACE XP ARCA section after six years is a powerful indicator of its enhanced resistance to pavement distress, including cracking and rutting. This sustained high performance translates directly into extended pavement life, reduced long-term maintenance costs, and a higher quality road for the Town of Halton Hills.



## Long-Term Economic and Operational Impact

The 6-year performance data from Barber Dr. reinforces the initial economic and operational advantages observed:

**Extended Pavement Life:** The higher PCI score for ACE XP ARCA indicates a longer service life, delaying the need for costly major rehabilitation.

**Reduced Maintenance:** Better pavement condition means fewer repairs and less frequent maintenance interventions, leading to significant cost savings over time.

**Proven Efficiency:** Precision aramid dosing with daily reports at the plant, without JMF changes and ease of installation continues to contribute to overall project efficiency and contractor preference.

## Client Feedback & Results

The 2025 update on the Barber Dr. Pavement Rehabilitation project provides compelling evidence of ACE XP Polymer Fiber's long-term value. ***Six years post-installation, the superior PCI performance of ACE XP ARCA, as validated by independent data, clearly demonstrates its ability to deliver more durable, high-performing pavements compared to traditional reinforcement methods like GlasGrid.*** This case study serves as a prime example of how Surface Tech's innovative solutions provide measurable, lasting benefits for infrastructure projects.

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[www.surface-tech.com](http://www.surface-tech.com)

