

The Mason Business Center Sustainable Parking Lot with ACE XP™

Ohio parking lot using ACE XP Polymer Fiber is one of six in the world designated as a demonstrator site for best practices in sustainable design and operation.

LOCATION:

Cincinnati, Ohio

DETAILS:

Complete parking lot rehabilitation.

PRODUCT:

ACE XP Polymer Fiber™

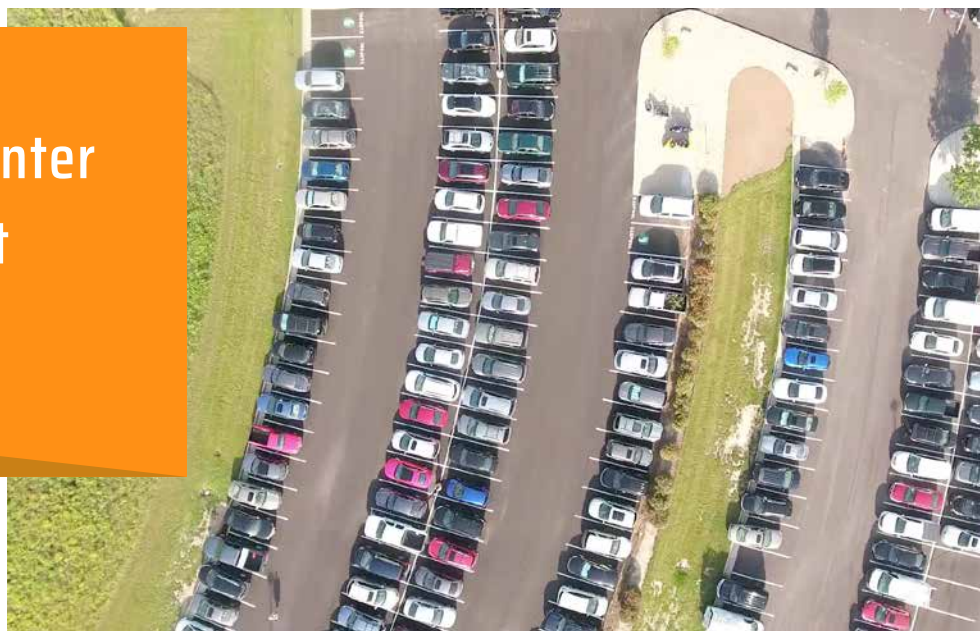
DATE:

February 2018

TEAM:

Atlas 10
Tenmile Creek Excavation
Neyra Paving
Surface Tech

"When designed with sustainability in mind, surface parking can help reduce energy consumption, improve air and water quality, and safely connect neighborhoods and people," said Paul Wessel, Director of Market Transformation and Development for Parksmart.



The Challenge

The Parksmart program through Green Business Certification Inc. (GBCI) recently recognized a new green surface parking lot at The Mason Business Center (MBC) in Cincinnati as a demonstrator site for sustainable design and operation. The MBC lot, which incorporated Surface Tech's ACE XP Polymer Fiber into the asphalt, is one of only six in the world to achieve the Parksmart program designation.

The U.S. has an estimated 500 million surface parking spaces which cover more than one third of some cities' land mass. Parking lots can add to water pollution through runoff, raise urban temperatures, and contribute litter to the landscape. Parksmart and other forward-thinking companies like Surface Tech are exploring ways to reimagine paving materials to be environmentally-friendly, socially responsible, and

The Results

The MBC project came in \$782,000 under budget and on schedule.

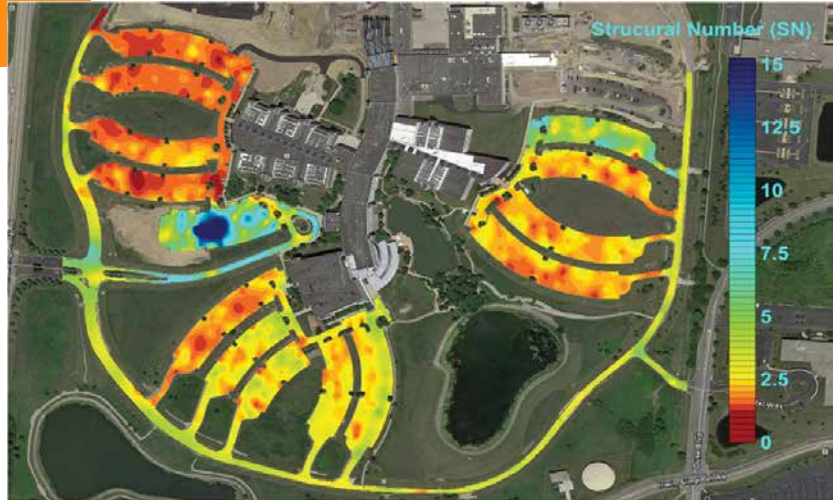
The team took the variability out of the construction process by assessing the site beforehand and maintained a well-tuned machine between the contractor, the testing firm and the pavers.

The Mason Business Center Rehabilitation Project was recognized as a demonstrator site by the U.S. Green Building Council, due to the sustainability achievements made during construction.

The Mason Business Center Parking Lot Rehabilitation

Atlas 10 chose ACE XP™ to achieve optimum performance and extended lifespan benefits

Atlas10, a Pendleton-based pavement management company, managed The Mason Business Center (MBC) parking lot project and procured resources, including Surface Tech's innovative asphalt additive, ACE XP Polymer Fiber™. These high performance engineered fibers were chosen for their ability to produce a stronger pavement, which extends its lifespan and saves money by reducing the need for frequent repairs and replacement. ACE XP Polymer Fiber™ additive produces a surface of higher strength and superior resistance against cracking and rutting delaying costly maintenance and reducing the CO2 footprint of the pavement over its design life.



Multiple subgrade evaluations were made to determine appropriate mix designs for each lot. The geotechnical evaluation demonstrated significant subgrade/soil problems to address.

“Sustainable surface parking benefits the community, environment and property owners. It’s an honor to work with The Mason Business Center (MBC) and the other construction partners to make sustainable parking a reality, and we are pleased that the project we orchestrated is now a demonstrator site.”

Mark Schmidt, CEO of Atlas10



Subgrade soil stabilization made advantage of the material already on-site to give the portland cement binder a substance it could adhere to readily.

The Cincinnati parking project was recognized by Parksmart during a presentation at Mason campus on February 2, 2018, which included facility manager, Atlas 10 and partners SurfaceTech, and 10 Mile Creek.

The Surface Tech Advantage

Surface Tech is committed to developing the most advanced reinforcement solutions for asphalt, not only adding strength and durability, but improving the sustainability. Our innovative processes, technologies and products make asphalt pavements better, stronger and longer-lasting. Extensive research and development, laboratory testing and field trials have proven the Surface Tech advantage. We're paving the way to a sustainable future.