

From impossible to complete in under three weeks.

THE PROJECT

Jim Weber of Ohio Mulch Supply, Inc., had just cleared 10 acres to use for truck and equipment storage when his contractor concluded that the ground was too damp and unstable for any kind of paved surface. Two-and-a-half weeks after that conversation, Weber had a fully functional surface that was cost-effective, environmentally friendly and expectation-exceeding — thanks to some help from Invigorate Plus, a bio-based re-binder that's simply sprayed onto asphalt millings.

THE DETAILS

To get started on what was supposed to be an impossible surface, the crew used a bulldozer to move six inches of topsoil before spreading a six-inch layer of asphalt millings evenly across six acres of the site. The crew used a truck-mounted sprayer to apply Invigorate Plus to the millings and then compacted it all with an asphalt roller. The entire job took a day to complete, and as the sun shone on the surface, the crew could already see it drying.

Within two-and-a-half weeks, Weber invited his contractor's team back out to take another look at the lot. "They were surprised by the density and how quickly it set," Weber said. "It was unlike anything they'd seen." The team continued to test the surface by driving a fully loaded semi over it. When the surface showed no sinkage or cracking, they deemed it suitable for trucks and landscaping equipment to drive and park on.



Before Weber found Invigorate Plus, the lot at Ohio Mulch Supply was considered unsuitable for any kind of paved surface.



After Weber's crew cleared the topsoil, Invigorate Plus was sprayed onto six inches of loose millings.



To form the new surface, the treated millings were compacted by an asphalt roller on the same day they were laid down.

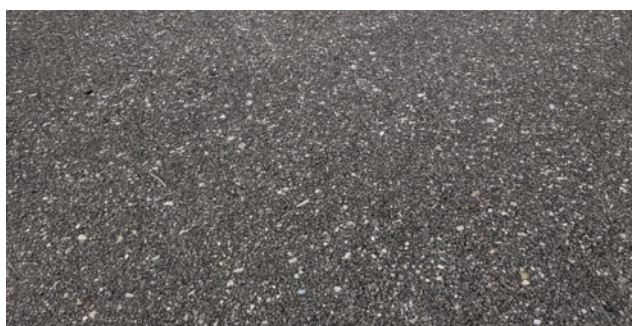
THE RESULTS

Jim Weber says that the dust elimination is another bonus to Invigorate Plus. “It was becoming a problem for our neighbors, but now, we don’t have any dust at all.” Because the re-binder contains a soybean-based polymer, the application also sealed the lot and forced rainwater to run off rather than penetrate the surface. Meanwhile, any existing water beneath the surface drained out the sides into a lower, unused part of the property.

Weber and his crew at Ohio Mulch Supply, Inc. were thrilled to see such quick and environmentally friendly results. “Being environmentally conscious is important for our operation,” Weber said. “Given the benchmarks Colorbiotics has set before with environmental safety, I’m not surprised they could offer me this.”

“Invigorate Plus completely transformed our damp and wet lot into a dry, stable pavement surface in a fraction of the time we thought it would take.”

Jim Weber
Owner of Mulch Supply, Inc.



The final result was a beautifully sealed storage area that was cost-effective, environmentally friendly and expectation-exceeding.

THE DATA

Invigorate Plus held up just as well in the lab as it did underneath the fully loaded semi. The PSI values in the table below demonstrate the strength of the new surface, as well as its adherence against fatigue, cracking and rutting.

Surfaces	PSI
No Binding Agent	5
Competitor A	45
Invigorate Plus	87
Asphalt Pavement	130



Core sample of the RAP millings that were treated with the Invigorate Plus re-binder.