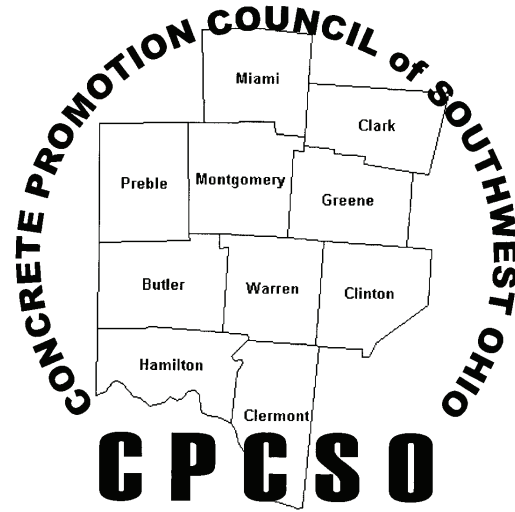


Mix of Fixes

Using a “mix of fixes”, Hamilton County has opted to incorporate concrete whitetopping as their intermediate solution to an ongoing problem.



The project on Harrison Avenue at Rybolt and I-74 took 30 days to complete



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Concrete for
pavement that lasts

Concrete Whitetopping in Hamilton County Ohio



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Southwest Ohio**

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The Mid-Range Solution, Ultra-thin whitetopping

The Hamilton County Engineer has completed an ultra-thin whitetopping (UTW) project on the west side of Greater Cincinnati. The project is 5500-feet in length and 22-feet wide. The two lane, downhill grade, project runs along Harrison Avenue, a major arterial roadway.



The speed lane was placed first with the curb lane to follow.

At the bottom of the project grade is the interchange of Harrison Avenue and Rybolt Road with Interstate 74. Two-way traffic was maintained on the two uphill lanes, which were later paved by others.

Along the centerline the concrete UTW overlay is 4-inches thick. Adjacent to the access lane, serving private development, the UTW is slightly thicker. The project paving contractor was Prus Construction of Cincinnati and the concrete supplier was Harrison Concrete Inc., of Harrison, Ohio.

The Process

Approximately two inches of old asphalt was milled off the top of the existing roadway. The milled surface was thoroughly cleaned with a power broom and flushed with a pressure water wash. The rough surface produced by the milling, as well as its cleanliness, provided the suitable base that is most desirable for maximizing the bond of the new concrete overlay to the remaining asphalt.



Immediately prior to paving, the surface was cleaned again, this time with compressed air. Because of the hot weather the contractor also sprayed a water mist on the existing surface to cool it.

The pavement was placed, one lane at a time, using the other lane to deliver the concrete. The method used was a slip-form paver.

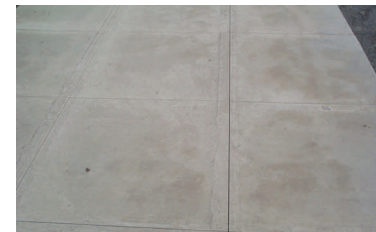


The whitetopping was bull-floated, given a transverse coarse broom texture, and heavily cured with white pigmented curing compound.



Concrete was given a coarse broom texture finish.

Longitudinal and transverse contraction joints were sawcut into the new concrete surface at approximately 4-foot spacing using early entry saws.



4-foot by 4-foot sawcut jointing allows for expansion and contraction

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