

PROJECT > ODOT Route 172

FLOWCRETE
Canton, OH



PROJECT DESCRIPTION:

In recent years, crossing the Nimishillen Creek on Route 172 near Canton, Ohio presented dangers to vehicles as decades of wear-and-tear on the historic bridge took its toll. DOT Construction Corp. faced the challenge of a full bridge rehabilitation on a schedule that would minimize impact to Route 172 traffic, so it decided FLOWCRETE applied in a “form & pour” process was the best option.

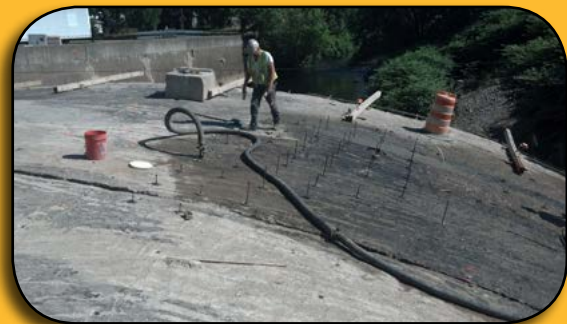
Approximately 3,300 square feet of concrete was sawed and chipped away from bridge’s underside in 4-inch to 6-inch depths before wire mesh and cathodic protection anodes were installed in areas requiring repair. Those areas were then formed up to receive FLOWCRETE mixed at a 9-inch to 10-inch slump through a piston-driven concrete pump located on the bridge deck. This unique application, which delivered exceptional job site efficiency, required that DOT Construction Corp. drill holes in the bridge deck.

FLOWCRETE is a factory blended properly proportioned mixture of Portland cement, aggregates and chemical admixtures for use in building or repair applications requiring a high-quality concrete with a maximum aggregate size of 3/8 inch. It may be mixed to any consistency from stiff plastic to free flowing virtually self consolidating consistency. An air-entraining agent is also incorporated in the dry material to produce a concrete that has exceptional freeze-thaw durability. Shrinkage compensating agents are included to minimize plastic shrinkage.

GENERAL CONTRACTOR: DOT Construction Corp.

PROJECT START DATE: April 2013

PROJECT COMPLETION DATE: December 2013



QUIKRETE® PRODUCTS USED:

- 55 lb FLOWCRETE: 2,300 bags

