



CASE STUDY

RESTORATION OF THE VETERAN'S MEMORIAL BRIDGE

Cleveland- The Veteran's Memorial Bridge connects the west side of Cleveland, Ohio with the central downtown area, spanning an industrial/ entertainment area called "The Flats" and the Cuyahoga River. Built in 1916, this gothic style bridge is 3,241 feet long. The 80 year old span was in need of major restoration. Salts, pollution and time had caused serious damage. In January 1995, a \$44 million restoration of the bridge began. The project included removal and replacement of the bridge decks, structural repairs to all the concrete and steel and coating of all the exposed concrete.

ChemMasters coatings were selected to protect and beautify the concrete.



The above photo is an arial view of the Veteran's Memorial Bridge. To the right is a close up of the bridge before coating with ChemMasters products.



HOW CHEMMASTERS MET THE CHALLENGE

Safe-Cure & Seal EPX is a two component, clear, water-based epoxy primer. After structural repairs to the concrete were complete, the concrete was brush blasted to remove dirt and laitance. **Safe-Cure & Seal EPX** was applied as the system primer at 200 square feet per gallon. **Safe-Cure & Seal EPX** penetrates and bonds tenaciously to the concrete. This high solids epoxy protects the concrete from chloride penetration while providing a base for pigmented topcoats.

Contractors prefer **Safe-Cure & Seal EPX** because it is water-based and easy to clean-up and because it hangs well at the prescribed coverage rates. Competitive products require multiple coats to achieve the coverage required.

Duraguard 310CRU is a two component, aliphatic urethane coating. In this project, the urethane was pigmented federal white and was roller applied at 200 square feet per gallon the day after the primer coat was applied. **Duraguard 310CRU** develops a durable, colorfast, high gloss finish that resists

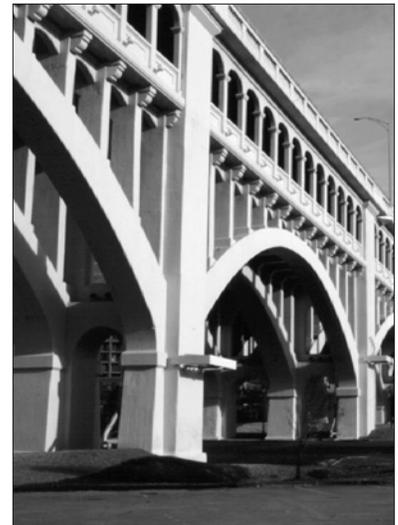
chemical attack and water penetration. **Duraguard 310CRU** resists graffiti and is easy to clean.

Contractors prefer **Duraguard 310CRU** because it hangs well on a vertical surface, dries quickly and covers well in a single coat.

The coating contractor said:

"The material supplied by ChemMasters was very consistent batch after batch. We did not need to be concerned with our terminations between shipments because the color was very dependable. The primer coat had good body to it. It was not water thin like other epoxy primers we had used. The top coat had excellent body and very good coverage."

ChemMasters coatings will help to protect the repairs made to the bridge for decades by sealing out water, salts and other pollutants which work to destroy concrete. In addition, ChemMasters coatings will keep this landmark structure looking beautiful for years to come.



Products are often applied by spray equipment. Here material had to be roller applied because of wind, the proximity to the Cuyahoga River and vehicular and pedestrian traffic that continued under the bridge during painting.

<p>GENERAL CONTRACTOR Dick Corporation, Pittsburgh. PA</p> <p>Project Manager Dan Bell Field Superintendent Pete McCormick Site Manager Jeff Sciuillo</p>	<p>PAINTING CONTRACTOR Anastasios Corporation, Pittsburgh, PA</p> <p>Owner Ernie Smalis Project Superintendent Mike Linn Foreman Rick Hogston</p>	<p>O.D.O.T. INSPECTORS</p> <p>District 12 Mike Vrabel Jeff Burton</p>
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