

PROJECT PROFILE

Kosciusko Bridge — Phase 1

PROJECT BACKGROUND

Replacement of existing bridge built in 1939 that crosses the Newtown Creek connecting Brooklyn and Queens NY. At 555 million the project at the time was the largest single contract ever awarded by NY DOT.

Traffic delays were due to an 18 times increase in traffic volume since the bridge was originally constructed. The new cable style bridges, the first in New York, will improve safety while reducing rush hour delays by up to 65% as well as providing new pedestrian/bicycle connections.

The work involved building a new 1.1 mile eastbound viaduct, which was completed in 2017; the existing eastbound structure would then be demolished. The westbound viaduct is planned to be completed by 2020, increasing to 12 the number of traffic lanes.

STRATEGIES

Bay Shore produced what is termed a Bulb Tee Precast Girder a type of bridge beam that supports the bridge decks which were approximately 6-8 ft deep with a length of 130 ft. Approximately 154 were made.

Beams were precast at the Bay Shore plant in Cape Charles, VA. All beams were required to be sealed with New York Department of Transportation approved Vexcon Certi-Vex Penseal 244 100 % silane water repellent penetrating concrete sealer to provide maximum long term protection against the effects of deicing chemicals, that exacerbates reinforcing steel corrosion, surfaces spalling from freeze/thaw cycles, as well as having the greatest degree of penetration.. Once treated and tested with Certi-Vex Penseal 244 100 % the beams were barged by water to the bridge construction site in New York.

RESULTS

Sealed, tested, approved and delivered by Bay Shore on schedule, contributed to the new Kosciuszko Bridge on time completion.

The new bridges are designed to last for the next 100 years providing a stronger and more resilient transportation infrastructure network for commuters throughout New York City.

Project Participants:	Bay Shore Precast Concrete Products
Project Specifications:	
Project Type:	Design/Build Cable Bridge
Location:	Brooklyn & Queens New York
Owner:	New York State
General Contractor:	Skanska & ECCO III JV
Architect:	HNTB
Concrete Contractor:	
Total Square Footage:	675,000
Project Completion Date:	April 2017
Product Used:	Certi-Vex Penseal 244 100 %



ABOUT VEXCON

Founded in 1974, Vexcon Chemicals core business is the manufacture, distribution and sale of construction chemical products.

Vexcon Chemicals is an industry leader providing innovative product solutions through the development of advanced chemical technologies designed to meet today's construction demands. With our unique capability as a vertically integrated specialty chemical manufacturer we produce as starting materials water and solvent based epoxy, urethane, hydrocarbon, acrylic and silicone products. These technologies allow us to develop cost effective products that are designed to exceed market demands for consist high performing materials. We also have the ability to manufacture customized products developed to meet specific customer demands.

Vexcon produces construction materials designed to build, repair, enhance, protect, and maintain a wide variety of concrete and masonry structures.

Our products span numerous markets and product categories and are commonly used on transportation, commercial, industrial, distribution, institutional and residential projects both nationally and globally.

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