

Vector®
Galvanode® ASZ+
Project History

Garden City Skyway St. Catharines, Ontario

Structure: Garden City Skyway Substructure Piers

Location: St. Catharines, Ontario, Canada

Client: Ministry of Transportation, Ontario (MTO)

Area treated: 1800 m² (19,440 ft²)

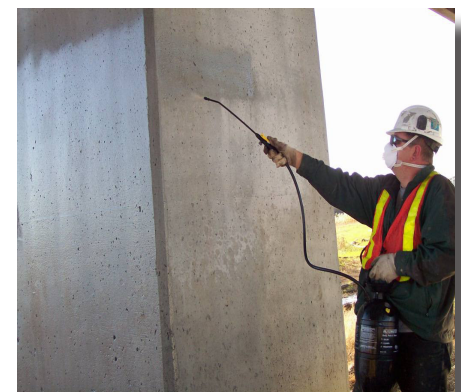
Contractor: Vector Restoration, Ltd.

Project Description:

Built in 1960, The Garden City Skyway is a major high-level bridge located in St. Catharines and Niagara-on-the-Lake, Ontario, Canada, that allows the Queen Elizabeth Way (QEW) to cross the Welland Canal without the interruption of a lift bridge. Six lanes of traffic are carried across the bridge, which is 5.6km in length and 37.5 meters at its tallest point.

In May 2004, Vector Corrosion Technologies installed a trial application of Galvanode ASZ+ activated arc spray zinc on E16 of the Garden City Skyway. The system was monitored and the performance verified by MTO. The performance of humectant activated arc spray zinc has been shown to be consistently better than un-activated zinc with improved bond to the concrete over time. In 2006, Galvanode ASZ+ was installed to provide corrosion protection to the remaining chloride contaminated concrete piers.

Galvanode ASZ+ (humectant-activated metalized zinc) is used to provide galvanic corrosion protection to reinforced concrete structures that are subject to corrosive conditions. With the Galvanode ASZ+ process, high purity zinc is metalized onto the concrete surface and is electrically connected to the embedded reinforcing steel. Once the metalized zinc coating is installed, it provides low or no maintenance galvanic corrosion protection. Vector Galvanode Humectant Activator Solution is applied to the surface of the zinc to achieve a higher level of current output and protection.



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