



Clockwise from Bottom Left
Workers prepare a bridge deck for primer and waterproofing installation; Bridge Deck Membrane™ can be sprayed around irregular surfaces, providing complete waterproofing protection for these direct fixation rails; A worker installs 80 mils of Bridge Deck Membrane™.

GEORGETOWN SOUTH RAIL CORRIDOR - CONSTRUCTION OF WEST BRIDGES EXPANSION

Greater Toronto Area, Ontario, Canada



Waterproofing Installation on Steel Bridge
Workers install 80 mils of Bridge Deck Membrane™ to the steel surface.

Between April 17 and May 12, 2013 Bridge Tite Group installed 12,000 square feet of Bridge Preservation™ Bridge Deck Membrane on five new bridges, part of Metrolinx’s Georgetown South Rail Corridor West Bridges Expansion.

Project Information
Project Number: 2012-CIG-001
Owner: Metrolinx
Project Size: 12,000 SF
General Contractor: Dagmar Construction, Inc.
Approved Applicator: Bridge Tite Group

Three of the bridges were concrete and the surfaces of each were prepared to Bridge Preservation’s standards (SSPC-SP13/NACE No.6). After a suitable surface was obtained, Bridge Preservation™ Concrete Primer was installed. This primer is water-thin and is able to migrate into the pours of the concrete, helping to seal the surface from outgassing and dramatically increasing the bond strength of the waterproofing membrane to the concrete. The remaining two bridges were steel, and their deck surfaces were prepared by abrasive blasting to SSPC-SP10 Near White Blast (3-5 mil profile).

Throughout the installation process there were intermittent bouts of rain, which caused some delays for Bridge Tite Group. While water does not affect the cure of the membrane, it can affect the bond strength to the surface. Bridge Tite Group carefully dried and cleaned any surfaces exposed to rain prior to resuming the waterproofing installation. Additional adhesion testing was performed as part of Bridge Preservation’s Quality Control program, ensuring that the surface was still suitable for the membrane installation. The results of the adhesion tests were over 700 PSI, well above Bridge Preservation’s minimum requirements.



Completed Bridge
Detail spray techniques were required to completely waterproof the many stiffener plates on the steel bridge.

Bridge Preservation’s Quality Control program requires that all aspects of the waterproofing installation are recorded daily: environmental conditions, surface preparation, product information and placement, and photos. Oversight throughout the installation process ensures that the products are installed correctly and the installation is successful.



Bridge Preservation
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