

Clockwise From Bottom Left:

Sandblasted steel deck segments ready for priming and waterproofing; Application of Bridge Preservation's Steel Deck Primer; the Application of Bridge Deck Membrane waterproofing.

CP Span Mile 176.71 Bellville Subdivision

Oshawa, Ontario

In May of 2003 the installation of Bridge Preservation's waterproofing system was completed for the Canadian Pacific Railroad project CP Span Mile 176.71 Bellville Subdivision. The waterproofing installation was completed at the Lousbourg Construction Services manufacturing facility using their available spray-booth.

Project Information

Project Number: NA
Owner: Canadian Pacific Railroad
Project Size: 2,000 SF
General Contractor: Lousbourg Construction Services
Coating Contractor: Lousbourg Construction Services
Date of Installation: May 2003



Filling Gaps

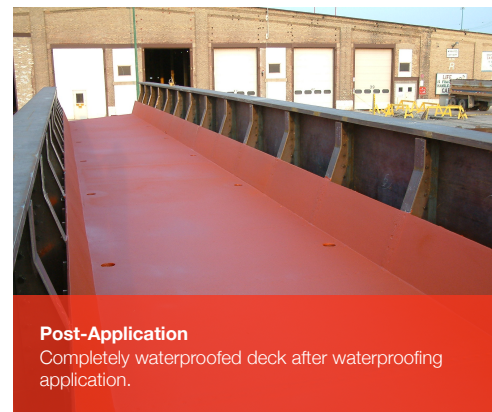
Installing cementitious material prior to the waterproofing application.

The project began with sandblasting the steel deck segments to a surface finish of SP10 with a 3-5 mil profile, ideal for receiving Bridge Preservation's Steel Deck Primer. The primer was applied within four hours of the sandblasting, which is essential to ensure the steel surface hasn't "bloomed" with any oxidation that could interfere with the bond to the steel surface. Following priming, the steel segments were installed onto the support girders and bolted into place.

It was discovered that the segments, when erected, left a 5/8" gap between the plates. This gap would create a stress point should a piece of ballast come in contact with the sharp edge. The decision

was made to fill the gap with cementitious material. Following the filling of the gaps, all residue left by the cement based fill material was removed using an acetone wipe to ensure a proper bond between the membrane and the primed steel surface. Primer was reapplied to affected areas prior to the waterproofing application.

Immediately following the reapplication of primer, the entire deck was coated using Bridge Preservation's Bridge Deck Membrane. Quality Assurance inspection and testing were conducted and recorded throughout the application by a certified Bridge Preservation Inspector, becoming part of the project record.



Post-Application

Completely waterproofed deck after waterproofing application.



Bridge Preservation

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