



**Clockwise from Bottom Left**  
Workers install Bridge Preservation™ Concrete Primer using specialized spray equipment; A worker installs primer near a tie-in; spraying Bridge Deck Membrane™.

# CORTLANDT STREET #1 LINE STATION REHABILITATION

New York City, NY



**Detail Spray**  
Bridge Deck Membrane™ can be sprayed around bolts and other penetrations, ensuring complete waterproofing protection

During July and August of 2013, Island Pavement Cutting Co., Inc. installed approximately 4,400 SF of Bridge Preservation™ Bridge Deck Membrane (BDM) on the outside of the Cortlandt Street #1 Line Tunnel.

**Project Information**  
Project Number: WTC-934.283  
Owner: Port Authority of New York & New Jersey  
Project Size: Approx. 4,400 SF  
Approved Applicator: Island Pavement Cutting Co., Inc.

This was a rather technical project for a number of reasons. Firstly, the top of the structure had an existing sheet membrane and drainage board system that the BDM spray applied waterproofing needed to be tied into. Secondly, the surface profile on the vertical walls was extremely aggressive, with some areas exceeding 1-2 inches. There were also numerous penetrations, including bolts and pipes that needed to be completely waterproofed.

Finally, there were multiple substrate types including concrete, steel, and existing waterproofing membrane that needed to be coated. Using Bridge Preservation™ BDM, Island Pavement was able to quickly and easily waterproof the rough vertical surfaces and the numerous substrates and penetrations present.



**Waterproofing Installation**  
A worker installing Bridge Deck Membrane™ spray applied waterproofing.

After the surfaces were prepared, Bridge Preservation™ Concrete Primer was applied to the concrete surfaces and Multi-Use Primer™ was applied to the steel and existing waterproofing membrane. Bridge Preservation™ Multi-Use Primer is a specially formulated primer system that enhances the bond strength between the membrane and various substrate types. The two primer systems took less than an hour to fully cure, and BDM™ was then applied.



**Bridge Preservation**  
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