



Clockwise From Bottom Left:
The sandblasted deck is ready for priming and waterproofing; Application of Bridge Preservation's Concrete Primer; the Application of Bridge Deck Membrane waterproofing.

Pontiac Avenue - Bridge #201

Cranston, Rhode Island

On August 1st, 2010 Bridge Preservations Bridge Deck Waterproofing System was installed on Rhode Island DOT's Pontiac Avenue Bridge #201 in Cranston, Rhode Island.

Project Information

Project Number: RIC #210-DF-033
Owner: Rhode Island DOT
Project Size: 1,500 SF
General Contractor: NA
Coating Contractor: Eastern Bridge Works
Date of Installation: August 1st, 2010



Pull Testing

"Dollies" pulled from the concrete deck showing cohesive failure of the concrete, which illustrates excellent adhesion values.

The project began with abrasive sandblasting to remove residual surface contaminants such as asphalt surfacing remnants, dirt, and grease. Surface preparation is critical because it provides the mechanism by which the waterproofing system will adhere to the deck and ensures a long service life.

Immediately following surface preparation ambient conditions were recorded by a Bridge Preservation inspector. Temperature and concrete moisture content were measured. In order to ensure that the installation is successful, the inspector is looking for the ambient temperature to be 5°F above dew point and rising prior to the application of the primer and waterproof membrane. Moisture content needs to be 5% or lower to ensure proper adhesion. Primer was then installed and pull

tests were conducted using an Elcometer. The inspector was looking for minimum tensile pull-off values of at least 150 PSI, but cohesive failure within the concrete is desirable.

The primer was allowed to completely cure, which took approximately 30 minutes. After the primer was cured, Bridge Deck Membrane was applied at a thickness of 80 mils.



Post-Application

Workers inspect the waterproofing immediately following installation.



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(913) 321-9000 info@bridgepreservation.com