Municipal
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Epoxy resin used to rehabilitate 108 manholes

Problem

The public utility department of Baltimore, Md., was charged with rehabilitating 108 deteriorated brick and concrete manholes.

Solution

For this project, Spiniello Companies chose to use **NeoPoxy International's** high-strength, corrosion-resistant **NPR-5304** epoxy system. First, the manholes were pressure-washed at 2,500 to 3,500 psi. Although NPR-5304 is a totally hydrophobic product and can cure underwater, hot air was then blown on the surface for 15 to 30 minutes in order to get maximum adhesion. Following this preparation, NPR-5304 was sprayed onto the surface as a monolithic 250-300 mils in one pass without preliminary mortar repair. This direct-to-aggregate method gives the best results since aggregates are the most corrosion-resistant part of concrete, and act like additional anchors for the epoxy layer.

RESULT

The project was completed successfully, and the manholes were back in service within an hour. Through this application of NPR-5304, the life span of the manholes was extended by approximately 50 years. **510/782-1290; www.neopoxy.us.**