



Extending Concrete Service Life

Featuring Polyshield SS-100®

Project:

Beaucatcher Tunnel

Location:

Asheville, NC

Owner:

North Carolina Dept.
of Transportation (NCDOT)

Contractor:

Orbit International

System:

50 mils (1.3 mm) POLYSHIELD SS-100®
4 mils (0.1 mm) PS-70 Primer

Total Area:

85,000 square feet

Completion Date:

July 1997

PROBLEM:

A sixty-eight year old tunnel was renovated to restore damaged concrete, and fix water problems. Previous coatings proved to have no longevity, and began cracking and peeling after only a short time. The North Carolina Department of Transportation (NCDOT) had previously used epoxies and paints, but were dissatisfied with the performance of these coatings.

SOLUTION:

Polyshield SS-100® was selected because of its superior strength and elasticity. The entire tunnel was sandblasted to remove the old coatings, cleaned with a high pressure wash, and primed with PS-70 Primer.

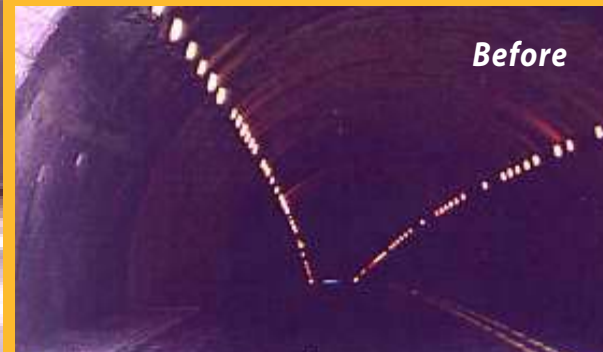
Polyshield SS-100® was then applied at 50 mils. The tunnel's new protective coating has been preserving the concrete and is easily cleaned using a high pressure wash, providing reduced maintenance costs.

RESULTS:

2009: According to a NCDOT representative, maintenance personnel reported that the Polyshield SS-100® is holding up well and no repairs have been necessary since renovations in 1997.



After



Before

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