



# Extending Service Life of Concrete

## Featuring Polyshield SS-100®

**Project:**

Lewis Street Underpass Spall Repair

**Location:**

Pasco, WA

**Owner:**

City of Pasco Public Works Department

**System:**

120 mils POLYSHIELD SS-100® to railing cap and 60 mils POLYSHIELD SS-100® to railing below cap. Primed with Devoe 167 Penetrating Sealer.

**Total Area:**

20,000 square feet

**Completion Date:**

October 1998

**PROBLEM:**

The Lewis Street Underpass was built in the 1930's with a low grade concrete. The concrete railing was spalling and falling on the cars below. Until the underpass could be replaced in the next 5-10 years, the city of Pasco needed an economical way to prevent the spalling. Because the underpass has a high volume of pedestrian and automobile traffic, a major concern for the project engineer was a quick turnaround time.

**SOLUTION:**

Polyshield SS-100® was chosen for its strength and quick curing time. In order to create a more even rail surface, the concrete

was first hydro-blasted at 10,000 psi, then primed with three coats of Devoe 167 penetrating sealer. Next, a quick-set grout was used to fill the larger gaps on the rail cap. Another coat of penetrating sealer sealed the grout. The rail caps were then coated with 120 mils of Polyshield SS-100® and the vertical rail surfaces were coated with 60 mils.

**RESULTS:**

The City Engineer checked the condition of the project three months after completion. He was pleased with the Polyshield SS-100® protection of the concrete and impressed by its resistance to vandalism.



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