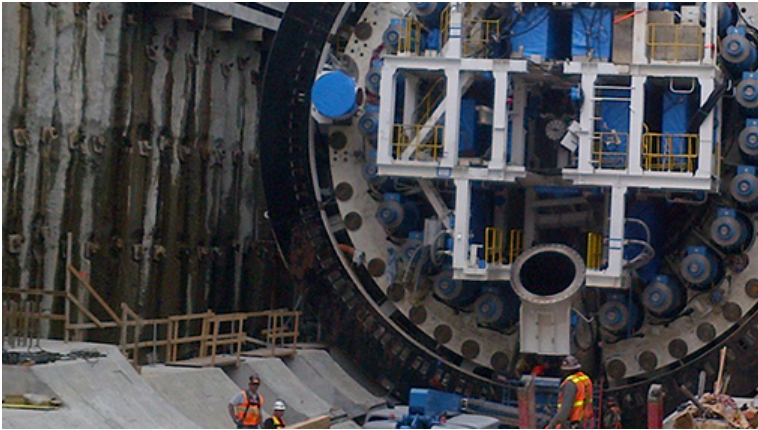


Waterproofing the \$3.1 Billion Alaskan Way Viaduct

GCP provides mission-critical waterproof solution

Project Alaskan Way Viaduct
Waterproofing Subcontractor F.D. Thomas
GCP Solution PREPRUFE[®] SCS waterproofing system



Project

Waterfront construction to transform Seattle

The Alaskan Way Viaduct is a mammoth \$3.1 billion transportation infrastructure project, set to deliver in late 2018. It's transforming the waterfront of downtown Seattle with a series of 30 major interrelated construction projects. The headliner: a two-mile-long highway tunnel carved under downtown Seattle. The project replaces the original Alaskan Way Viaduct, which is an aging highway overpass that is vulnerable to earthquakes.

"As a west coast company, we've put up millions of feet of the Preprufe® SCS system. We haven't had any issues whatsoever with major leaks or system failure at any level."

Bill Parks, Project Manager
F.D. Thomas

Daunting transit construction challenges

Bill Parks, project manager for waterproofer F.D. Thomas, was tasked with several epic assignments, including waterproofing the south tunnel portal, a cut-and-cover section formed with shotcrete. The 60-foot-deep jobsite was virtually floating in water. Water fountains shooting four feet or higher routinely burst through the mud slab. Secant piles offered only token water resistance. And still it rained and rained.

The transportation infrastructure faced a daunting series of issues, including:

- Meeting specifications that called for a clay membrane waterproofing solution
- Working dozens of feet below the water table during one of the rainiest periods on record
- Complying with harsh warranty requirements for near-zero water leakage
- Maintaining a hyper-aggressive project schedule

"Waterproofer F.D. Thomas, was tasked with several epic assignments, including waterproofing the south tunnel portal."

PREPRUFE® waterproof ensures a bone-dry tunnel

Parks knew if they could clear one crucial hurdle—changing the original waterproofing specs of the transportation infrastructure—he and his team could meet the demanding expectations.

"We insisted on using the PREPRUFE®SCS system," Parks recalls. "If we had used the other system, it would have been a disaster."

SCS pre-applied system engineered for shotcrete linings is manufactured and sold by GCP Applied Technologies, a global construction and technologies leader. The easy-to-apply membrane and injected grout create a uniform and continuous waterproofing system, sealing off the structure with a resilient cover and ending lateral water migration.

"If a leak appears," Parks says, "your chances of immediately stopping it are about 90 percent with PREPRUFE®SCS."

While up to two years of work remains on tunnel boring and finishing, the south portal transportation infrastructure results are outstanding. F.D. Thomas has installed PREPRUFE®SCS system to about 400,000 square feet of walls. Verdict: a bone-dry tunnel.

"When waterproofed by an experienced team, shotcrete applications are completely waterproof," Parks explains. "General contractors, owners, architects, and engineers can definitely specify watertight shotcrete with confidence."

Blue360SM Product Performance Advantage.

Because every project, large or small, deserves the best level of protection.

"The south portal transportation infrastructure results are outstanding."

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