

PROJECT:

Concrete Walking Roof-Deck
Waterproofing & Protection

LOCATION:

Seattle, Washington

OWNER:

Seattle Jewish Family Service

APPLICATOR:

Vector Construction, Inc.

COATING SYSTEM:

Aquaseal™ Synergy Series
Polyshield HT™ 100F

TOTAL AREA:

3,500 square feet

DATE COMPLETED:

September 2011

PROBLEM:

Jewish Family Service (JFS) was constructing a new 19,000 square foot building in the downtown Seattle metropolitan area. The building features a 3,500 square foot roof-deck courtyard, with a large planter box. Given the amount of annual rainfall, the project General Contractor needed to install a durable waterproofing membrane to seal the concrete surface.

SOLUTION:

JFS's General Contractor evaluated several different options including epoxy, sheet good liners, and polyurea elastomers. Vector Construction was awarded the project and recommended using the Aquaseal™ Synergy Series and Polyshield HT™ 100F polyurea coating system. Unlike sheet good liners, SPI's polymer coatings form a seamless, waterproof membrane, which dramatically reduces the potential for leaks. The elastomeric coating also has superior flexibility compared to traditional epoxies, giving it the ability to expand and contract with the concrete, during harsh annual weather cycles.

Facing a tight 30 hour time frame before the next rain storm, Vector swept and air blasted the concrete surface to remove any dust and surface latents. Aquaseal™ Synergy Series polyurea was applied as a base coat in lieu of a conventional slow curing primer. Vector Construction applied a 30-40 mil base coat using applied a 30-40 mil base coat using SPI's LPG™ portable, low-pressure proportioner. The lightweight LPG™ proportioner enabled the crew to move the entire equipment package and coating material up onto the roof deck. Within a few hours, Polyshield HT™ 100F was then applied as a topcoat at 60 mils.

RESULTS:

Vector Construction was able to finish the project within the narrow time-frame before the next rainstorm. JFS officials and the General Contractor were extremely satisfied with the projects results.

