

**PROJECT:**

Dealership Building Roof  
Parking for New Mini Cooper®  
Automobiles

**LOCATION:**

Seattle, Washington

**OWNER:**

Seattle Mini Cooper

**APPLICATOR:**

Vector Construction, Inc.

**SYSTEM:**

ULTRA BOND™ HT Polyurea  
100 mils

**TOTAL AREA:**

14,000 square feet

**COMPLETION DATE:**

August 2009

**PROBLEM:**

Seattle's Mini Cooper® car dealership was in need of a waterproof roofing membrane. In addition, the dealership was running out of room due to the limited parking space at their Seattle location. They wanted to increase floor space for the popular automobiles. The challenge was to design and install a cost effective, leakproof, polyurea roof/parking membrane system that would solve both needs.

**SOLUTION:**

The project owner and contracting company chose SPI's Ultra Bond™ HT polyurea due to the superior adhesion properties and ability to withstand daily traffic. The plan originally called for installing an asphalt roof system, however, this proved to be too problematic.

The applicator was contracted to provide a solution over the existing tar coating. Vector Construction and SPI devised a system of installing two layers of ¾ inch fire rated plywood over 4 inches of 100 lb. compressive strength foam, applied on top of the original tar coated concrete. The new solution had to

be a "floating" roofing system because it could not be mechanically attached to the concrete deck.

Next, the protection mat, foam insulation, and drain mat were removed while pull tests were completed for wind uplift calculations. Each layer was then glued in place with two layers of structural plywood on top of 8.0 lb. density polyurethane foam. The polyurethane foam was used for sloping around drains & transitions. The applicator applied 100 mils of Ultra Bond™ HT polyurea to the roof, parapet wall, and all transitions. Aluminum oxide was broadcast into the coating, and a final topcoat was applied to provide a non-skid surface.

**RESULTS:**

Seattle Mini Cooper® was pleased with the new roofing system. This multi-purpose solution provided a reliable, waterproof roofing barrier, and also freed up space allowing them to expand their inventory. The project was inspected in May 2010 and was performing well.

