

# Orange Lutheran High School

Installer: **Ross Hartwig, Joel Salazer, Gabe Soto, Senaido Valdez, Lazaro Gonzalez, Jose Gonzalez**

Location: **Orange, CA**

Type of Job: **Re Roof**

Square Footage of Job: **52,300**

Equipment Used: **Graco 30:1 pumps, Graco Heaters, 250 ft. foam hose, Graco GX-7 gun for field, Graco Model D gun for detail, Graco Extreme coating pumps, specially designed equipment for Cement coating application**

Number of people needed for the Job: **12**

Number of days required by the Job: **15**

Special Requirements: **OSHA compliant job site safety requirements; Fast track schedule- 15 days; Class A roof system requirement; 20 year NDL system warranty**

Foam and coatings used: **SWD Quik-Shield 125 Foam, SWD Quik-Shield 1929F Acrylic Coating, SWD Quik-Shield Cementitious Top Coat**

**Project Description:** In late July of 2011 Arithane embarked on the challenge to provide an alternate roof specification for consideration on the Orange Lutheran High School project. After reviewing the BUR specification and job conditions it became clear that our spray polyurethane foam roof system would be a huge success. The project was a retrofit application on an existing building with many installation challenges. In addition the school's management team was able to add some upgrades to the overall construction scope not associated with roofing because of cost savings. SPF allowed maximum benefit and is truly a value added roof for all parties involved.

**Benefits of using Foam:** Some of the benefits to name a few are: Building's energy demand was reduced; The spf system changed the structural upgrades that may have been necessary for the original BUR spec based on the building's dead load requirements; Most of the existing mechanical curbs could be re-used based on the self flashing capability of the spray foam system; Vertical surfaces were sprayed with our system in various areas to eliminate the challenges associated with counter flashings and BUR; All air conditioning duct work was sprayed with foam to better the energy efficiency of existing units and stop known leaks associated with these areas; Because the owner wants to re roof the remaining areas over next summer break, spray foam made it possible to install the roof in sections without fear of tie in failures associated with other systems.



*2012 SPFA Industry Excellence Awards*

**Category: Roof Foam > 40,000 sq.ft.**

