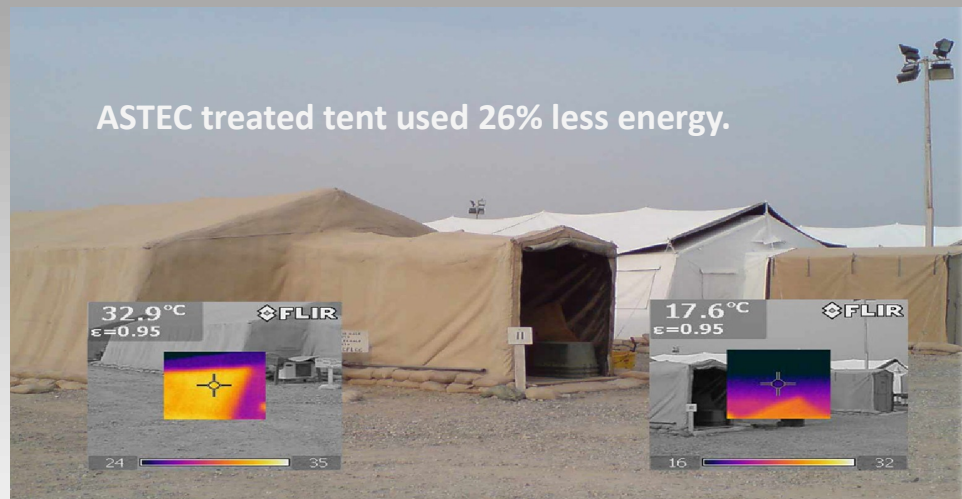


## ENERGY GUIDELINES YEARS IN ADVANCE

The **External Insulated Tents (EITS)** project at Camp Arifjan, Kuwait is a power savings initiative designed to reduce fuel consumption, the number of Environmental Control Units (ECU) being utilized, and reduce the size and quantity of generators needed which will result in an overall reduction in the level of power consumption. The elastomeric coating adds wind resistance, while maintaining the flexibility of the tents to sustain multiple folds for storage and reuse.



The initial test conducted over two years ago (July 2008) compared two tents located at Camp Arifjan. Although of equal size, the untreated tent had three split unit air conditioners, while the treated tent had only two units. Measurements were taken comparing the internal temperatures and a 10.8 degree Fahrenheit difference was found. Further tests were conducted and one air conditioning unit was disconnected. A 26% reduction in energy usage was realized by the use of the Astec coatings.

The only other option that was available and that has been tried in both Kuwait and Afghanistan was the use of Sprayed Polyurethane Foam. As you can see by the photo above the Astec coating dramatically outperforms the foam. The foam turns a mobile unit into a fixed placement unit and increases the risk of fire hazards as based on the internal report W9124Q-06-F-1204: "The calculated relative risk associated with the foam insulation assembly is greater than the untreated tent fabric for the interior fire scenario..." - Tent Foam Insulation Report.

Not only are the ceramic coatings a safer and more effective way to reduce energy but by reducing energy consumption, there is a direct reduction on the amount of fuel transports necessary to keep generators running. Reduced fuel convoys through the two main convoy routes within Afghanistan mean less personnel that could be placed in potential danger.

**Executive Order 13514: Federal Leadership in Environmental, Energy, and Economic Performance;** was signed on October 5, 2009 and had a stated goal of: "Pursuing cost-effective, innovative strategies (e.g., highly-reflective and vegetated roofs) to minimize consumption of energy, water, and materials."

Astec meets these goals and can help all US Government Facilities exceed the mandate of EISA 2007 (Energy Independence and Security Act of 2007), designed "to move the United States toward greater energy independence and security,... to increase the efficiency of products, buildings, and vehicles, ...and to improve the energy performance of the Federal Government..."; which sets goals for energy reduction of federal facilities based on a 2003 baseline of a 15% reduction by 2010 and a 24% reduction in energy by 2013.

Astec can help your facility qualify for LEED Credits and meet the energy guidelines mandated by EISA 2007.



**ASTEC® Cool Roofs/Cool Walls**  
World Leader in Sustainable Ceramic Coatings Since 1986



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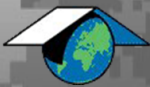
PSC / FSC: 5650; 8010; 5680 Cage Code: 5U6J9 DUNS NUMBER: 153212501

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# ASTEC EXTERIOR COATINGS REDUCE ENERGY USAGE



**Camp Arifjan** is a US military installation located in Kuwait and utilized as a forward logistics base, Aviation Classification and Repair Activity Depot (Task Force AVCRAD) for the entire Southwest Asian Theater, helicopter ground support base, and as a motor pool for armored and unarmored vehicles.

Accommodating elements of the US Air Force, US Navy, US Marine Corps and US Coast Guard as well military personnel from the United Kingdom, Australia, Romania and Poland are also forward deployed from there. Thousands of soldiers pass through Camp Arifjan either on their way to or returning from Iraq or Afghanistan.

The base has undergone many changes within the past several years, including the construction of half a dozen barracks, hundreds of "temporary" or transitional barracks, known as PCBs (Pre-Fabricated Concrete Buildings). Currently there are approximately 9,000 personnel stationed at Camp Arifjan.

**ASTEC Systems** provide seamless weather-tight barriers, offering highly reflective surfaces. ASTEC coatings can lead to substantial maintenance and energy cost reductions, and test well beyond typical standards for durability, flexibility, wind resistance, abrasion resistance; salt, chemical, and corrosives resistance.

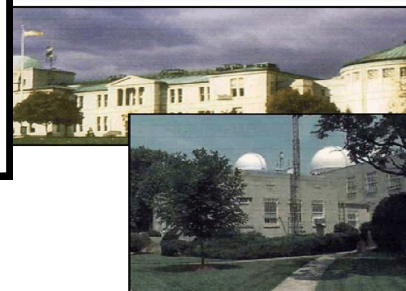


ASTEC has been working with the US Military for over 20 years. Solving water and heat related problems for the US Naval Observatory, China Lake, and many other military facilities around the world.



"... After the application of the coating, the average peak temperature in the warehouse area dropped to 86° F " - James A., Capt. USAF Chief RSD of Civil Engineering

"We can extend the life of existing roofing for a fraction of the cost of conventional roof replacement." - Benjamin S., Col, Dept. of the Army



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