



**GENERAL SERVICES ADMINISTRATION  
FEDERAL ACQUISITION SERVICE**

**AUTHORIZED FEDERAL SUPPLY SCHEDULE CATALOG/PRICE LIST**

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through **GSA Advantage!**, a menu-driven database system. The INTERNET address for **GSA Advantage!** is:

<http://www.gsaadvantage.gov>

**SCHEDULE TITLE:**

FSC Group: 56 - Buildings, Building Materials, Industrial Products and Services

**CONTRACT NUMBER:**

GS-07F-026AA

**CONTRACT PERIOD:**

October 12, 2012 to October 11, 2017

For more information on ordering from Federal Supply Schedules click on the GSA Schedules link at [www.gsa.gov](http://www.gsa.gov)

**CONTRACTOR:**

Insulating Coatings Corp.  
956 S US HWY 41  
Inverness, FL 34450-6861  
Toll-Free: 800-223-8494  
Phone: 607-723-1727  
Fax: 607-723-1700  
Email: [info@icc-astec.com](mailto:info@icc-astec.com)

**CONTRACTOR'S INTERNET ADDRESS / WEBSITES:**

<http://www.icc-astec.com> and <http://www.whyreplace.com>

**CONTRACTOR'S ADMINISTRATION SOURCE:**

Antoine Loup  
Insulating Coatings Corp.  
27 Link Dr. Suite D  
Binghamton, NY 13904  
Phone: 607-723-1727  
Fax: 607-723-1700  
Email: [aloup@icc-astec.com](mailto:aloup@icc-astec.com)





**BUSINESS SIZE:**

Small

**CUSTOMER INFORMATION**

**1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SINs)**

<b><u>SIN</u></b>	<b><u>DESCRIPTION</u></b>
563 4	ROOFING MATERIALS, PRODUCTS, AND SERVICES, including installation and site preparation, related to and ordered in conjunction with products for repair or replacement of an existing roof. Roofing products include: roof coverings, including tarps suitable for support of emergency and disaster recovery efforts; coatings; single or multi-ply membrane; retro-roof systems; hot or cold laid roofing felts; shingles (excluding wood shingles); asphalts; tar; and associated application materials. Services include, but are not limited to, performance warranty/monitoring (sole source procurements for this service are not allowed), roof maintenance, roof inspection, installation and site preparation; design assistance for a roof information management system, training and consultation, asbestos core testing, moisture analysis, wind uplift testing, infrared scanning, etc.

**1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH SIN:**

(Government price w/IFF based on a unit of one)

Please refer to our current price list attached after page 7 of this document.

**1c. HOURLY RATES: (Services Only)**

N/A – “Not Applicable”





**2. MAXIMUM ORDER\*:**

\$200,000 per order      \*If the best value selection places your order over the Maximum Order identified in this catalog/pricelist, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the aforementioned contractor for a better price. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the schedule contract in accordance with FAR 8.404.

**3. MINIMUM ORDER:**

\$100.00

**4. GEOGRAPHIC COVERAGE:**

Domestic: 50 states, Washington, DC, Puerto Rico, US Territories and to a CONUS port or consolidation point for orders received from overseas activities.

**5. POINT(S) OF PRODUCTION:**

Inverness, Citrus County, Florida 34450

**6. DISCOUNT FROM LIST PRICES:**

GSA Net Prices are shown on the attached GSA Pricelist. Negotiated discount has been applied and the IFF has been added.

**7. QUANTITY DISCOUNT(S):**

There are no quantity/volume discounts at this time.

**8. PROMPT PAYMENT TERMS:**

1%, 10 / Net 30





**9.a Government Purchase Cards are accepted at or below the micro-purchase threshold.**

**9.b Government Purchase Cards are accepted above the micro-purchase threshold.**

Please contact Insulating Coatings Corp at the aforementioned address / phone / email.

**10. FOREIGN ITEMS:**

None

**11a. TIME OF DELIVERY:**

Shipped within 20 Days after receipt of order

**11b. EXPEDITED DELIVERY:**

Shipped within 7 Days after receipt of order

**11c. OVERNIGHT AND 2-DAY DELIVERY:**

Overnight and 2-Day delivery may be available based on specific product and quantities ordered. Please contact Insulating Coatings Corp at the aforementioned address/phone/email for availability and rates.

**11d. URGENT REQUIREMENTS:**

Customers are encouraged to contact the contractor for the purpose of requesting accelerated delivery.





**12. FOB POINT:**

FOB Destination for orders over 360 gallons; for orders less than 360 gallons terms are FOB Origin, prepay and add.

**13a. ORDERING ADDRESS:**

Insulating Coatings Corporation  
956 S US HWY 41  
Inverness, FL 34450-6861  
Toll-Free: 800-223-8494  
Phone: 607-723-1727  
Fax: 607-723-1700  
Email: info@icc-astec.com

**13b. ORDERING PROCEDURES:**

For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in FAR 8.405-3

**14. PAYMENT ADDRESS:**

Insulating Coatings Corporation  
27 Link Dr. Suite D  
Binghamton, NY 13904  
Phone: 607-723-1727  
Fax: 607-723-1700  
Email: kwood@icc-astec.com

**15. WARRANTY PROVISION:**

Standard Commercial Product Warranty. Customer should contact Insulating Coatings Corp. for a free printed copy of the warranty.

**16. EXPORT PACKING CHARGES:**

N/A – “Not Applicable”





**17. TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE:**

Accepted

**18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR (IF APPLICABLE):**

N/A – “Not Applicable”

**19. TERMS AND CONDITIONS OF INSTALLATION (IF APPLICABLE):**

Authorized applicators are available for installation at separate costs based on project. Full specifications of installation procedures, in CSI format are available free of charge, contact Contractor for details.

**20. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES (IF AVAILABLE):**

N/A – “Not Applicable”

**20a. TERMS AND CONDITIONS FOR ANY OTHER SERVICES (IF APPLICABLE):**

Training in application of the products and site survey methodology is available based on projects at no or limited cost. Contact Contractor for details.

**21. LIST OF SERVICE AND DISTRIBUTION POINTS (IF APPLICABLE):**

Field service technicians are located within the CONUS – contact Contractor for details.

**22. LIST OF PARTICIPATING DEALERS (IF APPLICABLE):**

N/A – “Not Applicable”





**23. PREVENTIVE MAINTENANCE (IF APPLICABLE):**

N/A – “Not Applicable”

**24a. SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES (e.g. recycled content, energy efficiency, and/or reduced pollutants):**

- Energy Star Partner
- Federal Energy Management Program
- American Recovery and Reinvestment Act of 2009
- Disaster Recovery Purchasing Items
- LEED Credits
- Low Volatile Organic Compounds (VOC - Paints)
- TITLE 24 COMPLIANT
- ISO 9001 – 2008 CERTIFIED
- ASTM D6083

**24b. Section 508 Compliance for EIT:**

N/A – “Not Applicable”

**25. DUNS NUMBER:**

153212501

**26. NOTIFICATION REGARDING REGISTRATION IN SYSTEM FOR AWARD MANAGEMENT (SAM) DATABASE:**

Contractor has an Active Registration in the SAM database.

.....**SEE BELOW FOR CURRENT PRICE LIST**.....





<b>ASTEC RE-REPLY ROOFING FINISH PRODUCTS</b>				
<b>MFR PART #</b>	<b>PRODUCT NAME</b>	<b>PRODUCT DESCRIPTION</b>	<b>UOI</b>	<b>PRICE</b>
FIN2000	Astec Re-Ply Roofing 2000 Finish	RE-PLY FINISH COAT 2000 FOR LOW SLOPED ROOFING	per gallon	\$32.24
900	Astec Ceramic Finish Coat 900	CERAMIC FINISH COAT 900 FOR SLOPED ROOFING AND OTHER SURFACES	per gallon	\$29.82
HB	Astec Finish Coat 5000 TX	HIGH BUILD CERAMIC FINISH COAT FOR WALLS	per gallon	\$29.82

<b>ASTEC RE-REPLY ROOFING WATERPROOFING / BASE COAT PRODUCTS</b>				
<b>MFR PART #</b>	<b>PRODUCT NAME</b>	<b>PRODUCT DESCRIPTION</b>	<b>UOI</b>	<b>PRICE</b>
BC2000	Astec Re-Ply Roofing 2000 Base	RE-PLY BASE COAT 2000 FOR EPDM /SINGLE-PLY ROOFING	per gallon	\$30.63
BCS	Astec Asphalt / Concrete Base Coat # 4	BASE COAT 4 (BCS 4) FOR ASPHALT / CONCRETE ROOF SURFACES	per gallon	\$26.60
W10	Astec Waterproofing #10	FIBER REINFORCED WATERPROOFING FOR SEAMS / FLASHINGS / PENETRATIONS	per gallon	\$33.85
W9	Astec Waterproofing #9	WATERPROOFING BASE COAT (WPM 9 / WPM9 B&R) FOR SEAMS / FLASHINGS / PENETRATIONS	per gallon	\$29.02





<b>ASTEC RE-REPLY ROOFING PRIMERS / PREPERATION COAT PRODUCTS</b>				
<b>MFR PART #</b>	<b>PRODUCT NAME</b>	<b>PRODUCT DESCRIPTION</b>	<b>UOI</b>	<b>PRICE</b>
B16	Astec Rust Primer	RUST INHIBITOR (B16-71)	per gallon	\$32.24
EP	Astec EPDM Rinseable Primer	SINGLE-PLY ROOF CLEANER	per gallon	\$35.47
AP	Astec Asphalt Primer	PREPARATION COATS FOR NEW ASPHALT SURFACES	per gallon	\$29.82
CMCE	Astec Masonry Primer CMCE	PREPARATION COATS FOR CONCRETE PRIMER	per gallon	\$33.85
4000	Astec Surface Conditioner 4000	PREPARATION COATS SC 4000 FOR CHALKY OR PREVIOUSLY COATED SURFACES	per gallon	\$32.24
TS	Astec Transite Sealer	PREPARATION COATS FOR TRANSITE SURFACES	per gallon	\$30.63
2541	Astec Skylight Sealer	PREPARATION COATS FOR FIBERGLASS SKYLIGHTS	per gallon	\$30.63

<b>ADDITIONAL / SUPPORT MATERIALS &amp; PRODUCTS</b>				
<b>MFR PART #</b>	<b>PRODUCT NAME</b>	<b>PRODUCT DESCRIPTION</b>	<b>UOI</b>	<b>PRICE</b>
BBT2	Astec Butyl-Back Tape	BBT 2" x 50' FOR SEAMS / FLASHINGS / PENETRATIONS	per roll	\$11.42
TT400	Astec Reinforcement Poly-Cloth	Tie-Tex Cloth 40" x 324' FOR SEAMS / FLASHINGS / PENETRATIONS / ROOF	per roll	\$161.21
BBT4	Astec Butyl-Back Tape	BBT 4" x50' FOR SEAMS / FLASHINGS / PENETRATIONS	per roll	\$22.84
QT	Astec Samples	QUART SAMPLES OF PRODUCT	each	\$4.84



# What is fluid-applied roofing?

## Can you avoid costly roofing tear-off with a fluid-applied roof?

A fluid-applied roof is a multi-layered system that creates a seamless waterproof seal over an existing, qualified, substrate; eliminating the need for costly roofing tear-off and replacement.

Many roofs that are being torn off would qualify as substrates for conversion to sustainable, fluid-applied roofs, resulting in huge savings with the elimination of unnecessary expenses in facility downtime, reconstruction and disposal costs.

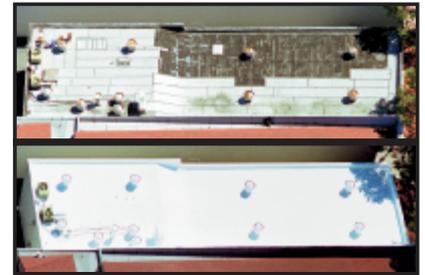
Don't let your roof waste your maintenance budget. Never pay to replace a roof you can convert to a sustainable (renewable) watertight roof.



Metal Substrate

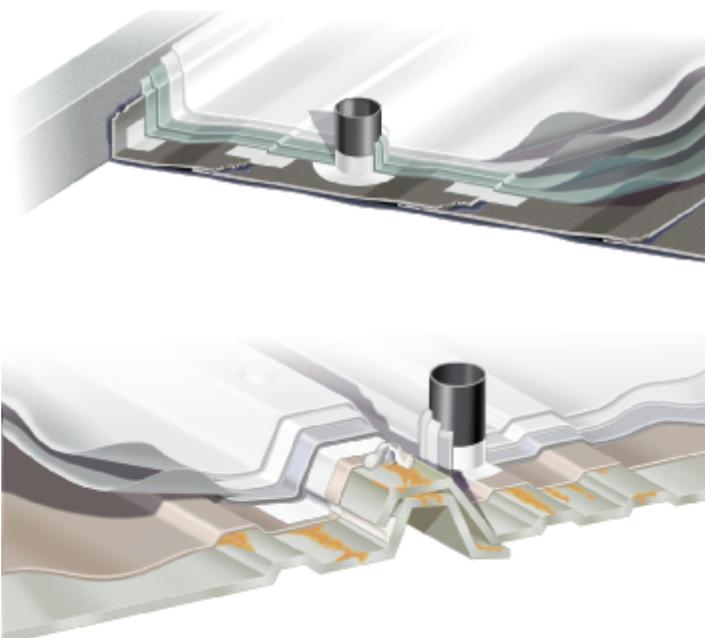


Single-Ply Substrate



Asphalt Substrate

## What makes up a successful fluid-applied roofing system?



### 1) Qualification

Inspecting the existing roof is a basic requirement before you receive a proposal from any roof contractor. The thorough ASTEC® Re-Ply™ Systems roof survey, sometimes using infrared scanning, will determine if the existing roof substrate is qualified for a fluid-applied cool roof.

### 2) Repairs

Once an existing roof is qualified as a candidate for conversion to an ASTEC® Re-Ply™ roof, necessary repairs to that substrate roof may be needed. These include drains, gutters, flashings, skylights, replacing wet insulation, etc.

### 3) Specifications

Detailed application specifications, matched to each substrate roof, are essential to a successful long term project.

### 4) Quality products and systems

The renewable sustainability of fluid-applied roofing can only be achieved by using time-proven products and systems of consistently reliable quality.

### 5) Knowledgeable trained applicators

Even the best products can fail if poorly applied. Trained roof professionals, applying quality products, according to detailed system specifications, is the only way to insure a fluid-applied roof will perform and protect as it should.

# Are all fluid-applied roofs the same?

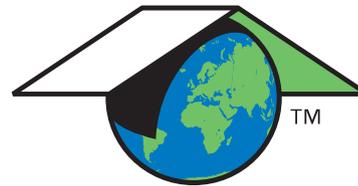
***Absolutely not!***

***Always ask:***

- ✓ **Is it waterproof?**
- ✓ **Is there a roof system specific for my roof?**
- ✓ **Is it applied by an authorized contractor?**
- ✓ **What is the warranty?**
- ✓ **Is it sustainable/restorable?**
- ✓ **Is it Energy Star partnered?**
- ✓ **Is it "Green"?**
- ✓ **Is it LEED qualified?**
- ✓ **Is it ASHRAE compliant?**
- ✓ **Is it Title 24 compliant?**
- ✓ **What are the tax advantages?**
- ✓ **Is the manufacturer ISO registered?**

Fluid-applied roofing materials, formulations, preparation methods, and application systems vary greatly in performance among brands. In fact, some products are little more than a thin layer of reflective paint to temporarily ward off damaging UV sunlight. These thin-layered products are not intended to be waterproof, sustainable, or guaranteed to any standards or specifications.

**ASTEC® Re-Ply™ Systems** are multiple layers of superior reinforcement, corrosion inhibitors, waterproofing, and durable top finishes. All are applied to specifications for substrate type by ASTEC® Authorized Contractors.



***Saving your roof. Saving money. Saving energy. Sustaining the planet.***

Insulating Coatings Corporation is an enthusiastic partner in environmental conservation and protection — from material acquisition, through manufacturing, to installed ASTEC systems.



**ENERGY STAR®** is a dynamic government/industry partnership that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.



**USGBC** is a 501(c)(3) non profit organization that certifies sustainable businesses, homes, hospitals, schools, and neighborhoods. It is dedicated to expanding green building practices and education, and its **LEED®** (Leadership in Energy and Environmental Design) Green Building Rating System™.



**ASHRAE** (American Society of Heating, Refrigerating and Air-Conditioning Engineers) develops standards for refrigeration processes and the design and maintenance of indoor environments. (The ASHRAE Standard 90.1-2007 is a current Energy Standard for Buildings Except Low-Rise Residential Buildings. It gives "consensus standards" and exceptions for reducing energy usage including those for membrane cool roofing.)

Accredited by American National Standards Institute (ANSI).



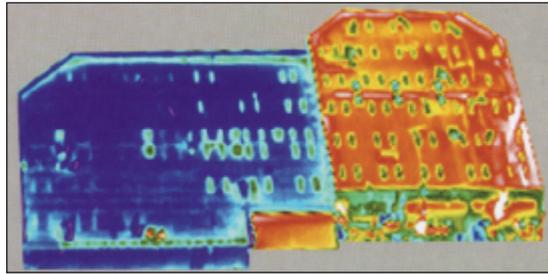
**NSF International**, The Public Health and Safety Company™, is the provider of ISO 9000, ISO 14000, QS-9000 Management Systems Registration, and related training and publications.



**ISO International Organization for Standardization**  
The source of ISO 9000, ISO 14000 and more than 14,000 International Standards for business, government and society. A bridge between public and private sectors.

# Can we see some typical ASTEC® Re-Ply™ roofing conversions?

California  
Food  
Processing  
Center  
  
38,000 sq.ft.  
Asphalt



ASTEC® Re-Ply™ converted roof sections prove to be as much as 65°F cooler.

Massachusetts  
Utility Company  
  
22,000 sq.ft.  
Metal



Energy studies have proven air-conditioning energy savings, even in northern states, can outweigh any cool roofing “winter penalties”.

Florida  
Naval Air  
Museum  
  
200,000 sq.ft.  
EPDM &  
Asphalt



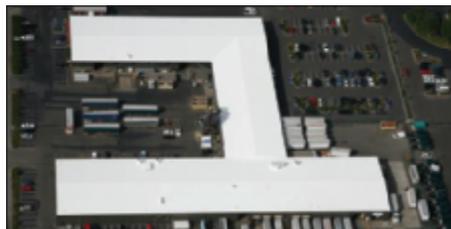
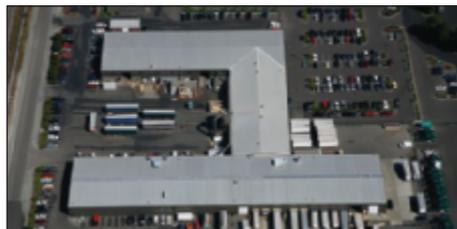
Installation can be less than half the estimate for replacement — without disposal problems, facility disruptions, or downtime costs.

Illinois  
Food  
Manufacturer  
  
20,000 sq.ft.  
Cap Sheet



When two roofing layers exist, building codes require tear-off... NOT with ASTEC® Re-Ply™ systems.

Washington  
State  
Manufacturer  
  
90,000 sq.ft.  
Metal



ASTEC® Re-Ply™ roof conversions and renewals use a fraction of the time and cost of a tear-off; reducing maintenance budgets.

New York  
Housing  
Facility  
  
40,000 sq.ft.  
EPDM (Rubber)



High-rise roofing involving cranes and other costly urban problems are avoided by using an ASTEC® Re-Ply™ system.

*Texas  
Manufacturing  
Facility*  
  
*1 Million+ sq.ft.  
Metal*



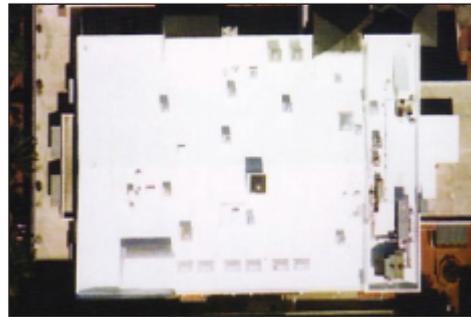
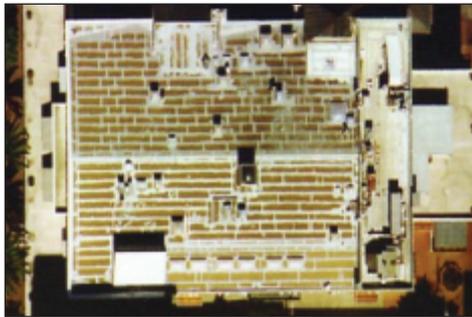
*ASTEC® Re-Ply™ systems permit building-by-building roof conversions as needs and budgets demand.*

*New England  
Food Store Chain  
Facility*  
  
*100,000 sq.ft.  
EPDM (Rubber)*



*Prudent companies have tested one or two sites, in different climates, before launching a broader program to universally upgrade to sustainable ASTEC® Re-Ply™ roofing.*

*California  
Business  
Park*  
  
*40,000 sq.ft.  
Asphalt*



*Occupant comfort and productivity head lists including reduced HVAC maintenance, lower utility costs, and longer building life.*

*New York  
Air Cargo  
Warehousing*  
  
*140,000 sq.ft.  
Metal*



*Limited preparation costs reduce conversion expenses even further — gaining ASTEC® Re-Ply™ sustainability for long-term savings.*

*West Virginia  
Retail  
Facility*  
  
*40,000 sq.ft.  
EPDM (Rubber)*



*Get a fair estimate of cool roof energy savings for your building using the Department of Energy (DOE) **Cool Roof Calculator** at their website.*

*Missouri  
Food Processing  
Facility*  
  
*112,000 sq.ft.  
Modified Asphalt*



*Roof tops having multiple penetrations realize huge savings utilizing a seamless, watertight, fluid-applied roof.*

# Who should consider ASTEC® Re-Ply™ Roof conversions?

**Architects and consultants** whose clients' buildings have aging roofs of various materials, and who wish to eliminate costly tear-off while gaining the sustainability of a fluid-applied roof. Those clients will also benefit from ASTEC® Re-Ply™ cool roofing advantages.

- Proven roofing technology
- EPA Energy Star cool roofing performance
- Meets LEED green building guidelines
- Recognized leadership, dedicated to fluid-applied development
- ISO 9001:2008 registered manufacturer
- Detailed specifications and professional installation
- Knowledgeable regional ASTEC representatives
- ASTEC educational and technical support

**Building owners and managers** who wish to benefit from a long-term, sustainable, and renewable solution to costly roof tear-off.

- Eliminates tear-off and landfill expenses
- No building shutdowns or disruptions required
- Converts qualifying roofs to sustainable cool roofs
- Huge savings on multi-penetration roofs
- Reduces cooling costs
- Promotes occupant comfort
- Meets public and private energy consumption goals
- Qualifies for energy incentives
- Taxed as maintenance OR capital investment
- Reduces cooling equipment maintenance
- Reduces thermal shock and UV degradation
- Reduces building life cycle costs
- Long term sustainability under RENEWABLE™ Warranty

**Contractors** who join the authorized ASTEC® Re-Ply™ team can offer customers non-intrusive, lower cost conversion to sustainable, cool and green roofing technologies while working with a leading manufacturer of high quality, fluid-applied roofing systems.

- Regional ASTEC Authorized Contractor/Applicators
- Join with a manufacturer exclusively dedicated to fluid-applied roofing
- 25 years perfecting premium products
- Hundreds of millions of square feet in use
- Detailed specification writing assistance
- Technical in-house and field support
- Ideal for public agencies under direction to be energy conscious





# 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.

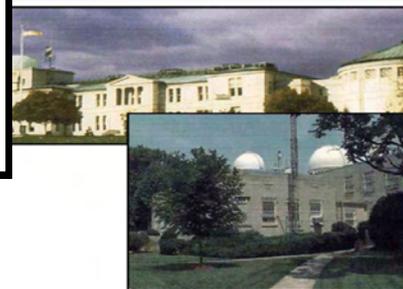
Accommodating elements of the US Air Force, US Navy, US Marine Corps and US Coast Guard as well military personnel from the United Kingdom, Australia, Romania and Poland are also forward deployed from there. Thousands of soldiers pass through Camp Arifjan either on their way to or returning from Iraq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



Insulating Coatings Corporation 103 Main St. Binghamton, NY 13905 USA

Phone: +1.607.723.1727 | Toll Free Phone: +1.800.223.8494 Fax: +1.607.723.1700

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

[www.whyreplace.com](http://www.whyreplace.com)

[info@icc-astec.com](mailto:info@icc-astec.com)

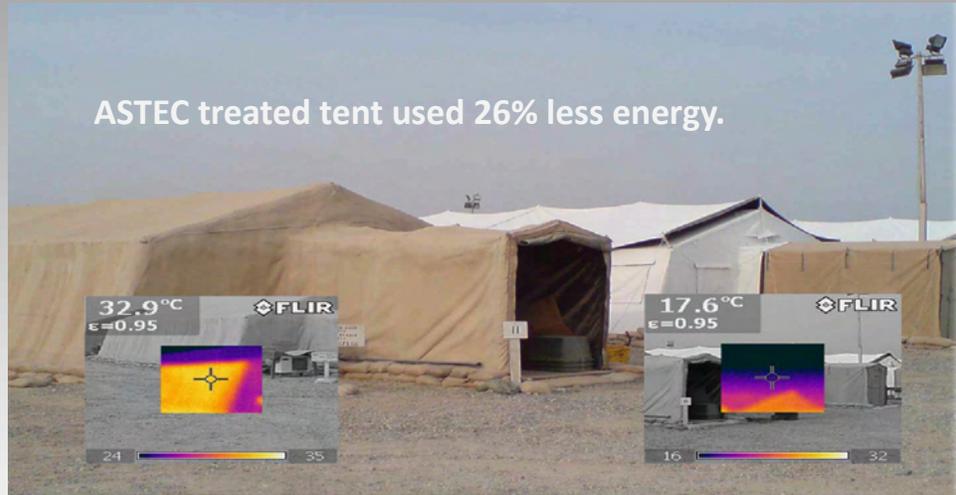
[www.icc-astec.com](http://www.icc-astec.com)





## 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 ceramic coating adds weather 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



Insulating Coatings Corporation 103 Main St. Binghamton, NY 13905 USA

Phone: +1.607.723.1727 | Toll Free Phone: +1.800.223.8494 Fax: +1.607.723.1700

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

www.whyreplate.com info@icc-astec.com www.icc-astec.com



Platinum Certified  
NSF/ANSI 140 - 2007a  
Sustainable Coatings Assessment





# Re-Ply™ Roofing Systems Proven Performance



ASTEC® Re-Ply™ elastomeric systems now provide more than **300 million square feet** of sustainable roofing for a variety of organizations worldwide, including:

## UNITED STATES

Amtrak  
 Amway  
 Anaheim Convention Center  
 Anniston Ammunition Depot  
 Archer Daniels Midland  
 Atlas Energy  
 Augusta State University  
 Baldwin County Schools  
 Blue Bird Wanderlodge  
 Boeing  
 Bridgeport University  
 Calhoun Hospital  
 Central Cold Storage  
 Collis  
 Conoco Oil  
 Dallas Planning Mills  
 Dairy Queen Corporation  
 Delphi  
 Denver Civil Service  
 Dever Distributing  
 Entergy Riverbend Nuclear Facility  
 Filtronic Comtek  
 Firestone Business Park  
 Florida Power & Light  
 Fort Dix  
 Fridgidaire Corporation  
 Friskies Petcare  
 Gem of Hawaii  
 Gold Kist Foods  
 Grainger  
 Grissom Air Force Base  
 Grumman-Olson  
 Gulf Chemical  
 Hormel Foods  
 Honda  
 IBM  
 Ingersoll Rand  
 Ivax Pharmaceuticals

Jet Plastica  
 Johnson Controls  
 Keebler Corporation  
 La-Z-Boy  
 Lemoore Naval Station  
 Litton Industries  
 Lockheed Martin  
 Marmon-Keystone  
 McCoy's Lumber  
 McDonald's Corporation  
 Miami-Dade Aviation Authority  
 Minute Maid  
 Moeller High School  
 MTX Corporation  
 NASA Johnson Space Center  
 Naval Air Museum  
 Nellis Air Force Base  
 New Orleans Convention Center  
 NJ Housing Authority  
 Norfolk Shipyards  
 Norwich Housing Authority  
 NYS Thruway Authority  
 Ocean Spray  
 Oreck  
 Pacific Electric & Gas  
 Packard Hughes  
 Pennsylvania Tool  
 Pensacola Naval Air Station  
 Pepsi Cola  
 Piper Aircraft  
 PPG  
 Proctor & Gamble  
 Puget Sound Naval Shipyard  
 Queen of Peace Church  
 Richmond Technology  
 Ricoh  
 Rodel  
 Sara Lee  
 Sawgrass Mills  
 Scientific Glass

Southeast Lighting  
 Standard Register  
 Sun Chemical  
 Super 8 Motels  
 Swanson Corporation  
 Tennessee DOT  
 Toledo Scale  
 Trane Company  
 Uni-Kool  
 University of Kentucky  
 US Coast Guard  
 Wabash Alloys  
 Walt Disney Phase I & II  
 WES-PAC  
 Weyhauser  
 Wheeling-Pitt Steel  
 Winnemucca Farms  
 Yakima Fruit & Cold

## INTERNATIONAL

Allen Bradley  
 Campinas Outlet  
 Carrefour Supermarket  
 Catai Shopping Center  
 Clementi West  
 Cummins do Brasil  
 EM Services Pte  
 Emicol S/A  
 Hawker Centre  
 Hilton International  
 King's Place  
 MOL Oil & Gas  
 Nitero Museum of Contemporary Art  
 Northern Telecom  
 Port of Vancouver  
 Royal Guard of Oman  
 Sani Sport  
 Siemens  
 Supermar Supermercados  
 Tanjong Pagar Town Council



# ASTEC® Re-Ply™ Systems Test, Properties, and Approvals

**Standards & Testing** by independent laboratories verifies the superior advantages of ASTEC Re-Ply membrane roofing when applied professionally to various base roof materials. Additional advantages of a seamless, cool-roof conversion include: maximizing heat reflectivity and emissivity, wind resistance, and fire resistance, minimizing utility costs, insurance costs, thermal shock, fungal and corrosive degradation, and attendant facility maintenance.

## ASTEC® Re-Ply™ #900 Finish Roof Membrane and System

Property	Result	ASTM Test Method
Wind-driven Rain Resistance	No moisture penetration after 24 hours	Federal Spec. TT-C-555-B
Chemical Resistance	24 hour exposure to 10 chemicals. Little to no effect.	ASTM-D-1308
Cold Checking	10 cold check cycles. No cracking or other deleterious effects.	ASTM-D-1211
Cold/Hot Cycling	10 cold/hot check cycles. No cracking or other deleterious effects. (+82 deg. C and -40 deg. C)	US TESTING LAB procedure
Abrasion Resistance	Withstood 450 liters of falling sand abrasion. No wear through.	ASTM-D-968
Adhesion	Tape cross-hatch method. 100% of coating remained in place.	ASTM-D-3359
Fire Resistance	Coating did not support combustion. Passed spread of flame Class A.	ASTM-E-108-90-UL/790
Impact Resistance	Withstood 160 inch pounds.	ASTM-D-2794
Ponding	After two weeks no water had penetrated the coating systems.	US TESTING LAB procedure
Moisture Vapor Permeability	Average moisture vapor transmission .08 without cracking.	ASTM-D-1653
Fungal Resistance	Coatings are resistant to fungal contamination. Rating of 10 on a scale of 0 to 10 (resistant).	ASTM-D-3273-73T
Flexibility	Passed the Conical Mandrel test.	ASTM-D-522
Tensile Strength after weathering	75% retention of 50 hr. value for each temperature.	ASTM-D-2370
Accelerated Weathering (2000 hours)	No deleterious effects.	G-26
Salt Spray (200 hr.)	No deleterious effect.	ASTM-D-1654
Fire Resistance	Class A, B or C	E-108/UL-790
Water Vapor Transmission	20 (inverted cup)	E-96
Fungicide	28 days scale 0 (No growth support)	D-3273/3274 G-21
Algicide	14 days scale 0 (No growth support)	G-29
Thermal Physical Properties	(0.90) emissivity and (0.85) reflectivity	C 1371 C1549

Tested by TRW: "Your (membrane) absorbs up to 50% less solar energy than normal (coatings)".

Tested by Christian Testing Labs: "ICC's ASTEC ceramic coating significantly outperformed R-20, four inches of foam insulation in heat gain tests."

Tested by U.S. Dept. of the Air Force: "Reduced interior building temperature by 17 degrees..." "The coating is unquestionably an effective and cost effective way to insulate buildings and still maintain an attractive appearance."



NSF Certified  
NSF/ANSI 142 - 2007a  
Cooling Tower Water Treatment





# ASTEC® Re-Ply™ Systems Test, Properties, and Approvals

## Astec® Re-Ply™ #2000 Finish Roofing Membrane and System

Property	Result	Requirement	ASTM Test Method
<b>Liquid Requirements (Table 1)</b>			
Brookfield Viscosity @ 73.4 F , cps	<b>15.600</b>	12.000 - 85.000	D 2196
Viscosity @ 73.4°F , KU	<b>127</b>	85 - 141	D 562
Volume Solids, %	<b>65</b>	>50	D 2697
Weight Solids, %	<b>69</b>	>60	D 1644
<b>Film Properties (Table 2)</b>			
Initial Tensile Strength @ 73°F , psi	<b>288</b>	200 minimum	D 2370
Initial Elongation @ 73°F, %	<b>284</b>	100 minimum	D 2370
Permeance (20 mil dry film, 73.4°F/50% RH, inverted), perms	<b>9.8</b>	50 maximum	D 1653
Water Swelling, Mass %	<b>13.4</b>	20 maximum	D 471
Wet Adhesion to galvanized metal using ICC Primer B16, pli	<b>6.5</b>	20 minimum	C 794 / D 903
Wet Adhesion to M HC Concrete Substrate, pli	<b>5.1</b>	2.0 minimum	C 794 / D 903
Tear Resistance (Die C), lbf/in	<b>97.0</b>	>60	D 624
Fungi Resistance, rating	<b>0</b>	0 maximum	G 21
<b>Film Properties after 1000 Hrs Accelerated Weathering</b>			<b>D 4798</b>
Elongation @ 73°F, %	<b>228</b>	100 minimum	D 2370
Low Temperature Flex, 1/2" mandrel, -15°F	<b>Pass</b>	Pass	D 522
Appearance after 1000 hrs accelerated weathering	<b>Pass</b>	No Cracking or Checking	D 4798
<b>Initial Radiative Properties of #2000 Finish Surface</b>			
Solar Reflectance	<b>.87</b>	CRRC .70	C 1549
Thermal Emittance	<b>.91</b>	CRRC .71	C 1371

*Note: Wet adhesion testing was completed using Insulating Coatings Primer B 16 applied to the galvanized metal, allowed to dry, and then the ASTEC #2000 Finish coat applied to the primed galvanized metal. This is the only test that included the use of a primer with the (ASTEC Re-Ply #2000 Finish) coating.*

- Tested by PRI Asphalt Technologies, Inc

