



Sustainability Solutions / Cost Savings / Energy Management

Liquid Applied Seamless Roofing with Reflective Cool Roof Technology

Department of Justice (DOJ)

Real Property Climate Resiliency Planning

Facility Maintenance and Operations

Contracting Officer Representative

Engineering Design Build Teams

Facility Managers

Meeting sustainability goals requires innovative products as the solution. Instacoat Premium Products provides those solutions, helping agencies plan and budget facility maintenance, construction and renovation projects. Executive Order (EO) 14008 and 14057 set sustainability goals for all federal agencies. Climate Action Plans outline sustainability requirements and goals for agencies to meet. This document highlights those requirements and provides solutions specific to sustainability goals set by EO, FAR, DOE, and EPA.



Cost Effective - Innovative Strategies - Waste Reduction - Sustainability Planning

The DOJ has over 71 million square feet of real property owned and leased assets. Following the DOJ Climate Action Plan and Facility Climate Hazard Assessment Tool (F-CHAT), will help agencies meet annual climate action goals. This approach to roof design will see energy and cost savings utilizing the IPP liquid applied cool roof systems. This document outlines the government policies for Net-Zero, Climate Action Plan Goals and follows EPA and DOE design for construction and renovation. The IPP systems are compatible with all existing roofing systems and provide a cost effective solution to full tear-off. The systems are third party tested and certified; UL, FM, NSF, CRRC, Miami Dade, and CA Title 24.

Climate Change has increased heat index averages and heat waves continually increase energy use. IPP cool roof systems dramatically drop roof deck temperatures; this reduces energy consumption, Co2 emissions, and significantly reduces heat island effect. This membrane system provides a thermal air barrier, and with lower deck temperatures, facilities can extend life-cycles of roof top equipment, HVAC, solar arrays, and communication equipment. Cold applied monolithic seamless roof decks will seal the entire roof envelope and provide an energy savings thermal barrier regardless of facility location.

Energy/Cost savings can be captured with: lower construction costs and labor, less energy consumption, less roof top equipment cycle usage, less Co2 emissions, and less preventative maintenance.

Federal Acquisition Regulation (FAR) is a parent document for all federal acquisitions

FAR 23.103 Sustainable Acquisitions



FAR 36.602-1 Waste Reductions



FAR 36.104 Sustainable Buildings



FAR 36.601-3- Conservation, Preventions and Reductions



Sustainability Design

- "Air Barrier" and thermal roof envelope design-ASHRAE 90.1
- Air tightness and whole building design-- IECC, ASHRAE, ASTM and ABAA standards
- Climate Resilient Facilities and Infrastructure--Climate Action Plans

Environmental Protection Agency (EPA)

- Heat Island Mitigation Strategies (Cool Roof Technology) <https://www.epa.gov/heat-islands>
- Energy Star Roofing program phase out June 2022: www.ipp/energystar/sunsetting.com
- EPA Waste Reduction Model (WARM): <https://www.epa.gov/warm>
- Determine Co2 and waste reductions for your project with positive climate impacts

Department of Energy (DOE)

Energy Costs Savings, Increased Roof Longevity, Longer HVAC unit life cycles, Increased Solar Reflectance Index (SRI), Reduces Co2 emissions.
<https://www.energy.gov/energysaver/design/energy-efficient-home-design/cool-roofs>





Company Website

Instacoat Premium Products - Coatings Manufacturing

www.instacoat.com

Federal Government Projects

US Air Force-Silicone Roof Restoration EAFB, CA

US Army-Silicone Roof Restoration San Pedro, CA

Dept. of Veterans Affairs-Cool Roof Restoration Augusta, GA

DHS/CBP-MREC Silicone Roof Restoration San Diego, CA

US Space Force-MREC Silicone Roof Restoration, VSFB, CA

DOD-Roof Maintenance/Repairs--PSFB and MAFB, FL

Federal Acquisition Regulation: FAR 36.104 Policy

- Cost Effective, Highly Reflective Cool Roof Technology, Minimizes Energy Consumption
- Identify alternatives to renovation and reduce maintenance cost
- Ensure pollution prevention, Low/No VOC's
- Eliminate waste by diverting at least 50% of construction materials and debris from landfills

IPP Solutions & Cost Savings / Cool Roof Rating Council

- Cost savings- 1/3 of construction is typically roof demo, with IPP roof restoration there is no demolition; roofs are left in place and restored with a new membrane and 10-25 year warranty
- Cold applications, no heat/fire hazards, low/no VOC
- Roofs are encapsulated and left in place, no abatement is necessary because materials are not disturbed
- Highly Reflective roofs, energy conservation, cost savings
- Reduced Heat Island Effect, temperatures can be reduced up to 60 degrees based on locations and roof type
- HVAC equipment extended life cycle, equipment cycles on/off less-equals cost savings from less maintenance and repair
- Site Air Quality-continuous site operations, no dust/debris
- Walkways integrated into the deck, ergonomic effects for maintenance workers, no high wind debris hazards
- No permits for landfills, can reduce waste to landfill up to 100%, no construction dumpsters, keep EMR ratings low
- Seamless roof systems eliminate almost all maintenance repair costs; there are no seams to fail like other flat roof systems
- The rubber emulsion elongation factor is over 800%, there are no seams to buckle/fail causing expensive leaks/repairs
- Co2 reduction--roof top HVAC units cycle on and off less

Products and Government Projects

Instacoat Premium Products

Silicone Roof Restoration System- TDS/SDS

<https://instacoat.com/federal-government/>



Cool Roof Rating Council (CRR)

- DOE Energy Star retired June 22-Follow CRR
- Solar Reflectance Index: IPP Silicone 113
- ANSI/CRR Standard-100- Roof Rated Products

Best Practices

- LEED Silver Certification
- Federal Energy Policy Act--Now Permanent
- Energy Efficient Buildings Tax Deduction-Roofs

Sustainable Design

Heat Island Effect Mitigation

Recover/Overlay: 30% Energy Reduction

ANSI/CRR S-100 products and materials

No/Low VOC emissions products

Solid Waste Reduction 50% and 75% by 2030

Federal Government Marketing & Sales

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Executive Order (EO)

14005

Procure Goods

Produced in the USA



#3

**Department of
Homeland Security**
44k sqft Cap Sheet
Roof Restored with
MREC System



1. Cap Sheet roof cleaned for MREC System



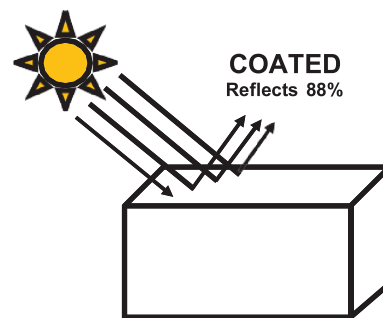
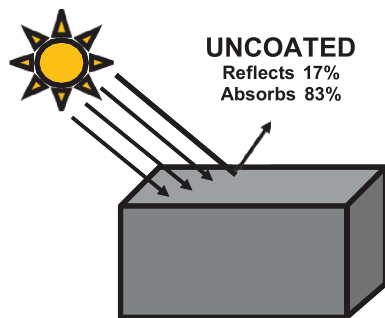
2. Cap Sheet coated with IPP Rubber



3. 250HS Silicone, UV stable, highly reflective



4. EPDM integrated walk-ways



SILICONE ROOF RECOVER/OVERLAY SYSTEMS WORK, THE PROOF IS IN THE NUMBERS

88%

The amount of UV rays reflected by the IPP System.

60

The number of degrees cooler the Cool Roof System can obtain over conventional systems

\$0.50

Energy savings per square foot by installing an IPP System. (EPA Study)

33%

Energy savings per year by installing an IPP SRR System. (California Energy Commission).

1/3

The cost savings of an IPP System over a total roof replacement, depending upon the size and scope of the project.



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