



**Sustainability Solutions / Cost Savings / Facility Management**

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**Eco-Friendly Roof Restoration with Seamless Reflective Cool Roof Technology**

**VA Acquisition Regulation (VAAR)**

**Facilities Management Service (FMS)**

**Engineering Technician**

**Contracting Officer Representative**

**Contracting Officer**

**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. VAAR and TIL documents outline sustainability requirements for the Department of Veterans Affairs. This information highlights those requirements and provides solutions specific to sustainability and "Cool Roof" technologies using Silicone Roof Restoration (SRR) systems aligned with Climate Action Plans.**

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Executive Order (EO)  
14005  
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#1



**Cost Effective - Innovative Strategies - Waste Reduction - Sustainability Planning**

**VAAR 823 Environment, Energy and Water Efficiency, Renewable Energy Technologies**

<https://www.va.gov/OAL/library/vaar/>



**The VA Technical Information Library (tiL)** contains the CFM Sustainable Design Information: VA Sustainability Design Standards, Guiding Principles, Policy Memo's, Standards Alerts and Best Practices for LEED certification.

[www.cfm.va.gov/til/sustain.asp](http://www.cfm.va.gov/til/sustain.asp)



**Office of Construction and Facilities Management (CFM)**

*CFM's Sustainable Design Program strives to enhance VA's mission by incorporating sustainable design practices into the design and construction of VA facilities. Driven by numerous Federal mandates and VA policies, the program encourages design strategies that reduce energy and water consumption, integrate cost-effective renewable energy, promote healthy work environments, and protect vital natural resources. <https://www.cfm.va.gov/>*

**Federal Acquisition Regulation (FAR) is a parent document for the VAAR**

**FAR 23.103 Sustainable Acquisitions**



**FAR 36.602-1 Waste Reductions**



**FAR 36.104 Sustainable Buildings**



**FAR 36.601-3- Conservation, Preventions and Reductions**



**VA Sustainability Design Manual**

<https://www.cfm.va.gov/til/sustain/dmSustain.pdf>

Section 2.0 General Project Requirements, Section 4.0 Energy, Section 5.0 Water, Section 6.0 Indoor Environmental Quality (Low VOC), Section 7.0 Environmental Impacts of Materials--7.3 Waste Diversion

**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 / See: ANSI/CRRS S-100

[www.ipp.energystar/sunsetting.com](http://www.ipp.energystar/sunsetting.com)

**Department of Energy**

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>



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**VAAR: Part 823.1**

Sustainability Acquisition Policy

**VA Best Practices**

LEED Silver Certification

SustainableDesign@va.gov

**VA Sustainable Design Manual**

<https://www.cfm.va.gov/til/sustain/dmSustain.pdf>

3.2.1 Heat Island Effect

4.1.2 Renovations 30% Energy Reduction

4.3.1 Energy Star products and materials

6.0 No/Low VOC

7.3.1 Solid Waste Reduction 50%

**Cool Roof Rating Council (CRRC)**

ANSI/CRRC Standard 100 (S-100)

<https://coolroofs.org/resources/ansi-crrc-s100>

**Federal Government Projects**

US Air Force- Silicone Roof Restoration EAFB, CA

US Army- Silicone Roof Restoration San Pedro, CA

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

DHS/CBP- Silicone Roof Restoration San Diego, CA

**Regulation FAR 36.104**

- Cost Effective, Highly Reflective Cool Roof Technology, Minimize Energy Consumption
- Identify alternatives to renovation and reduce maintenance cost
- Ensure pollution prevention, Low VOC's
- Eliminate waste by diverting at least 50% of construction materials and debris from landfills

**IPP Solutions & Cost Savings/Energy Star**

- 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 25-35 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 from less use cycling on/off and cost savings from less maintenance and repair
- Walkways integrated into the deck, cost savings on roof mats and repairs, ergonomic effects for maintenance technicians and prevents debris hazards in high wind areas
- No permits for landfills, can reduce waste to landfill up to 100%, no construction dumpsters needed for construction materials
- Seamless roof systems eliminate almost all flat roof 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**

Instacoat Premium Products

Silicone Roof Restoration System- TDS/SDS

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



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



1. Cap Sheet roof cleaned for SRR System



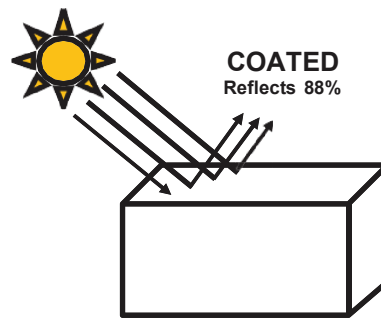
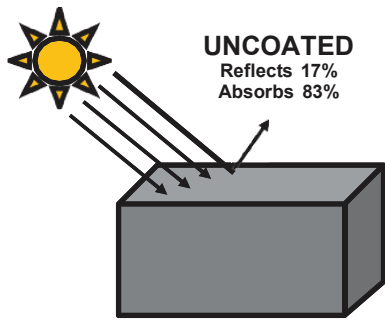
2. Cap Sheet coated with IPP Rubber



3. HS 250 Silicone UV stable highly reflective



4. EPDM integrated walk-ways



**SILICONE ROOF RESTORATION SYSTEMS WORK, THE PROOF IS IN THE NUMBERS**

**88%**

**60**

**\$0.50**

**33%**

**1/3**

The amount of UV rays reflected by the IPP SRR System.

The number of degrees cooler the IPP SRR System can obtain over conventional systems

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

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

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



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