



Sustainability Solutions / Cost Savings / Facility Management

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) 14057 sets 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.



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



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

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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Executive Order (EO)
14005
Procure Goods
Produced in the USA





Company Website

Instacoat Premium Products - Coatings Manufacturing
<https://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-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

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%

Products

Instacoat Premium Products

Silicone Roof Restoration System- TDS/SDS



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



1. Cap Sheet roof cleaned for SRR System



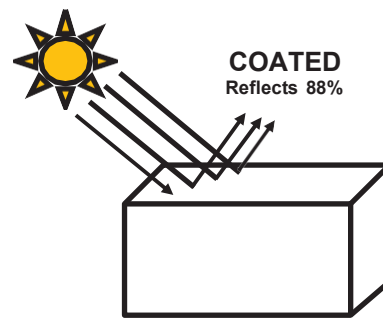
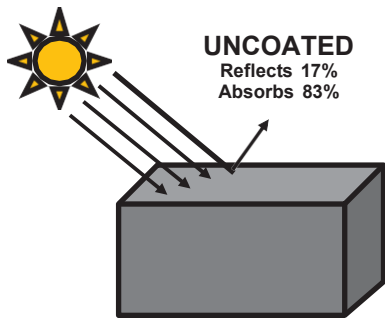
2. Cap Sheet coated with IPP Rubber



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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