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Silicone Roof Holds Up in Tropical Climate ROOFING PROJECT PROFILE

PROFILE:

PROJECT NAME:

Multi-family High Rise
2033 Nuuanu Street
Honolulu, Hawaii

EXISTING ROOF SYSTEM:

Concrete deck
SBS Cap Sheet
Estimated at 10+ years old

PRODUCTS:

APOC 585
APOC 515
APOC 483
APOC Incredible Tape



“It is important to remove and eradicate moisture, especially wet insulation as it has nowhere to go besides down through the deck. The result is a serious mold risk,”

BENEFITS:

- High reflectivity rate
- Impervious to moisture
- Long service life
- Resists algae, easy cleaning

With signs of moisture issues common to insulation over an aged cap sheet roof, the 25 story multi-family high rise at 2033 Nuuanu Street in Honolulu, Hawaii required immediate attention. As a certified thermographer, APOC representative Jim Eurton completed an infrared thermography inspection revealing moisture around

parapet walls, walk pads, exhaust vents and pipe vents, as well as near a stairwell and under mechanical equipment. “It is important to remove and eradicate moisture, especially wet insulation as it has nowhere to go besides down through the deck. The result is a serious mold risk,” said Jim Eurton.



East Coast:
(813) 248-2101
8:00 AM - 5:00 PM EST

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(562) 423-6471
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The infrared readings detected moisture from the wall at the stairwell building proving this area appeared to have ponding water issues.



BEFORE



AFTER

Upon completion of core sample testing, Jim provided options for roof restoration. In partnership with APOC, The roofing contractor was able to deliver roof restoration for a fraction of the cost of a roof replacement.

The APOC System selected for this restoration, APOC Guide Specification AM-BU-585, delivered a durable waterproof membrane over the existing roof surface which had retained structural integrity but had become weathered and deteriorated.

Wet insulation and decking were removed and new materials were installed, allowing for the contractor to complete the roof restoration. Materials included in the APOC System included:

- **APOC #483 Polyester for flashing reinforcement**
- **APOC #515 Liquid Flash for flashing and details**
- **APOC INCREDIBLE FleeceTop Tape for flashing and details**
- **APOC #585 ArmorFlex White Silicone Roof Coating**

Ultimately, the building benefits with a long lasting, monolithic, impermeable membrane that defends against ponding water, UV rays and extreme temperatures. Application is faster and less disruptive than a roof replacement, better for the contractor and building occupants. And everyone benefits with a sustainable system that is solvent-free and delivers high solar reflectivity and thermal emittance.



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