

ACS CIC 4.0 Key Information

Don't Just Paint
Insulate!



Key Features



Complete Thermal, Corrosion and Acoustic Solution for Challenging Conditions

- Class A Fire Rated
- Reflects 97% of solar radiation and Reduces energy costs up to 30% +
- Provides RvE (R Value Equivalency) Comparable To R9 – R15 with Just 1mm Thickness
- Eliminates Moisture, Mold and Corrosion Under Insulation (CUI)
- High ROI - Reduces labor and facilities maintenance costs

Projects

Murrieta Public Library 40 mil of CIC applied to exposed HVAC ducting on the roof to reduce heat loading and provide a continuous membrane to seal joints, reduce HVAC run time and save energy and money. The coating reduced the surface temperature of the ducting up to 60°F and reduced heat loss within the ducting and run time of the unit.

Murrieta Fire Station 60 mil of CIC was applied to the outside of the cinderblock wall to block solar heat loading from heating up the sleeping quarters causing the HVAC unit to run continuously. Before coating the thermostat was set to 66°F with an interior temperature of 76°F. After coating the thermostat was raised to 68°F and the interior temperature was 68°F decreasing HVAC run time.

Toyo Electronics Production Plant insulated their exterior roof and ceiling to reduce solar heat loading, insulate for ambient temperature and reduce HVAC costs. Roof top and exterior wall application of insulation coating resulted in peak load reduction of 37% of air conditioning electricity cost. The annualized daily electric load factor reduction was 15% with a return on investment (ROI) in 5.4 years.



Differentiators

Use on most surfaces to help block heat transfer including roofs, walls, HVAC ducts, concrete, wood, metal, steam pipes, and high temperature equipment. Ideal for marine environments, ships, metal structures and complex surfaces.

Blocks solar heat and ambient temperature loading using reflectivity and insulating properties.

- Addresses all three types of heat transfer Conduction, Convection and Radiation.
- Prevents Thermal Bridging
- Effective as:
 - **Air Barrier** to control building envelope air leakage
 - **Thermal Barrier** to block the transfer of heat or cold
 - **Vapor Barrier** to block Moisture
 - **Acoustic Barrier** to dampen noise
- LEED Version 4.0 Points
- Easily applied to joints, bends and irregular surfaces
- Lightweight (approx 0.1 lbs/ft²)

Last Piece of the Energy Puzzle

Taking a proven product into the building envelope market:

- Continuous Membrane
- Retrofit or New Construction
- Increase Energy Efficiency

Ceramic Insulation Coatings with the formula ACS CIC 4.0 is distributed by Deep Energy Solutions, A Bechtel Companies Solution. Bechtel has been serving So Cal since 1989.

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