

## PROJECT: Miami Dade County, Florida Public Schools

### INTRODUCTION

Intellicoat installed its SolarSave® energy savings roof coating to the roofs of seven relocatable classroom buildings at Miami Dade County Public Schools. This pilot project was implemented for Intellicoat Technologies and Broward County Public Schools by Siemens Building Technologies, Inc. and included metering of buildings to measure results from the seven coated pilot buildings for a three-week period before coating and a three-week period after coating. Project dates ran in the months of November and December at Coral Park High School. Electricity consumption was collected with HOBO data loggers at 3-minute intervals. Roof top temperatures were also compared and weather conditions were monitored to enable comparisons on like weather days.

### RESULTS

#### Energy Savings

All seven buildings on all measured days showed unambiguous energy savings post SolarSave® coating. Maximum kWh savings reported were **24.6%**. Average kWh savings reported were **19.2%**.

Additional savings expected in warmer months from increased demand for kWh consumption and from savings in kW demand costs.

Roof surface temperature reductions shown of 43°F.

#### Other Benefits

Additional benefits are seen and expected from the project including:

- Roof life extended
- Roof maintenance costs reduced
- Air conditioning equipment life extended
- Waterproofing
- Enhanced classroom comfort
  - Better learning environment
  - Happier children
  - Content Teachers
  - Relieved Parents
  - More quiet learning environment
- Environmental benefits
  - Buildings qualify for U.S. Green Buildings Council LEED-EB credits
  - Reduction in green house gas emissions from reduced energy need
  - Contributes to sustainability of buildings by extending roof life
- Cosmetic appeal where visible