Stop Your Home from Being a Solar Heat Trap This Summer
Radiation Heat Transfer in Your Home

Radiant Heat Accounts for 93% of Heat Gain in the Summer & 50-60% of Heat Loss in the Winter

Winter Heat Loss
- 5-7% Convection
- 5-7% Conduction
- Up to 45% Radiation

Summer Heat Gain
- 5-7% Convection
- 5-7% Conduction
- Up to 93% Radiation

How a Radiant Barrier Can Improve Energy Efficiency

Without LO/MIT

The attic of your home in the summer is a natural solar heat trap. Everything in it, including the insulation, absorbs and stores that heat. Long after sunset, your air conditioning units are still working to dissipate the stored heat that is radiating into the living area of the home. In the winter, there can be significant heat losses through the roof with inadequate attic insulation.

With LO/MIT

LO/MIT Radiant Barrier Coating can control heat absorption in the attic of a house by reflecting back the solar radiation trying to penetrate the roof. LO/MIT is sprayed on the bottom side of the roof deck facing the attic. Attic temperatures will be much lower in the summer, reducing the cooling load on the home and dramatically increasing comfort. Heating bills will be modestly reduced as LO/MIT also helps keep the building envelope warmer in the winter.
LO/MIT Radiant Barrier Coating

pays back many times its cost to the homeowner by reducing energy bills

Ceiling insulation is designed to reduce heat loss and gain in the home due to convection and conduction but it is much less efficient at controlling radiation heat loss and gain. LO/MIT helps standard insulation operate more efficiently by lowering its operating temperature.

“When a radiant barrier is added to a home, comfort immediately improves.”

–Gary Cook - Professor of Building Construction, Univ. of Florida.

Did You Know?

Appalachian State University Energy Center, NC, recently announced the results of a case study to measure the benefits of adding radiant barriers in home attics. Key findings include:

• 23 degree F drop in peak attic temperature
• 20% reduction in the A/C units run time during peak hours
• 57% efficiency improvement in the cooled air delivered through the air ducts

Radiant Barrier Coatings (IRCCS) are a Recognized Energy Saving Technology by:

- ASTM
- ASHRAE
- AIA
- Florida State Energy Code
- Austin Energy
- Florida Solar Energy Center
- Electric Power Research Institute
- Environmental Protection Agency
- Florida Power & Light
- Oak Ridge National Lab
- Lawrence-Berkeley National Lab
- Insulation Contractors’ Assoc. of America
- US Department of Energy
- NASA
- Jet Propulsion Laboratory

LO/MIT is a silver-colored, non-thickness dependent, low emissivity coating. Its superb ability to reflect both heat (Infrared radiation) and light make it an excellent low-cost substitute for metallic foils or metallized plastic films.
Other Places to Spray LO/MIT:

Overhangs & Porches
Garages & Sheds
Metal Garage Doors
Barns & Hangars

Rooftop Applications:
LO/MIT-IR Radiant Barrier Roof Coating is an Energy Star Certified roof coating that can be used to reduce roofing skin temperatures & extend roof life on many commercial, industrial & agricultural buildings. Contact your LO/MIT installer for more information.

Local LO/MIT Installer:
SOLEC Solar Energy Corporation • (609)883-7700 • www.SOLEC.org