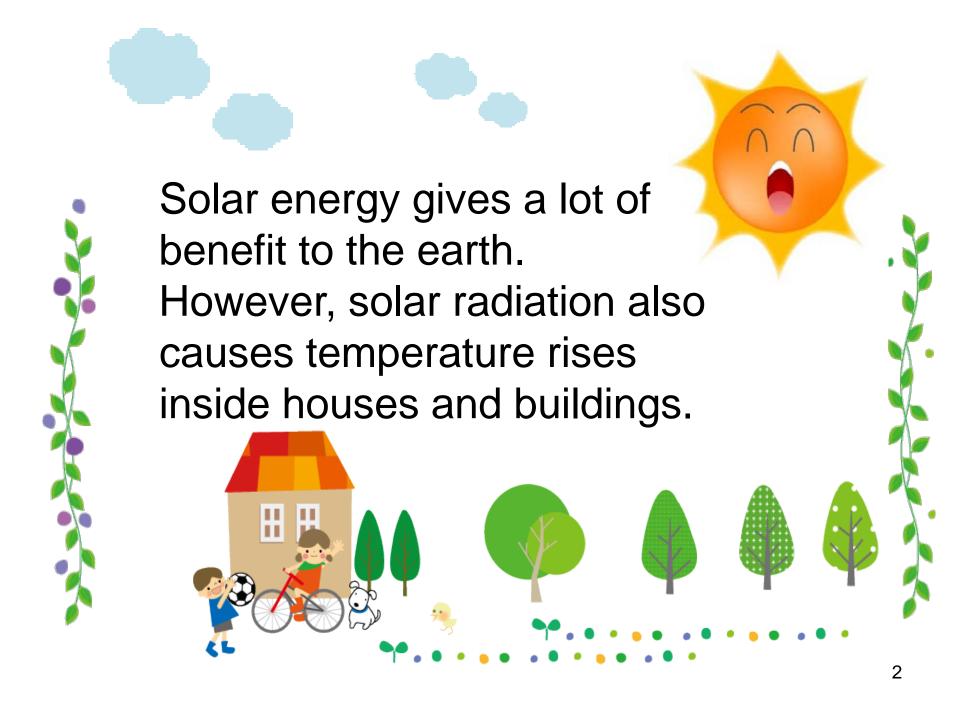


# SOLAR HIGH REFLECTIVE COATINGS

MIRACOOL®

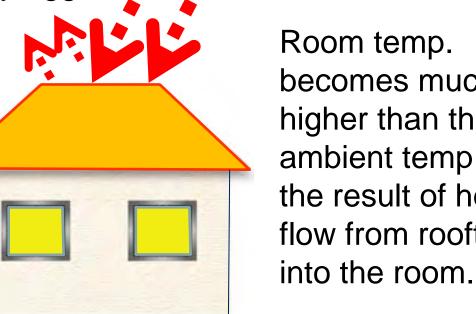
MIRACOOL CO., LTD. 30/SEPTEMBER/2010



In case roof surface absorbs the solar energy.

Due to absorption of solar radiation, roof temperature becomes higher than 60°C, which is hot enough to fly eggs.

Low Reflection

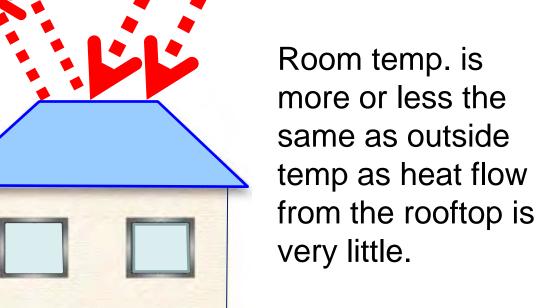


becomes much higher than the ambient temp. as the result of heat flow from rooftop

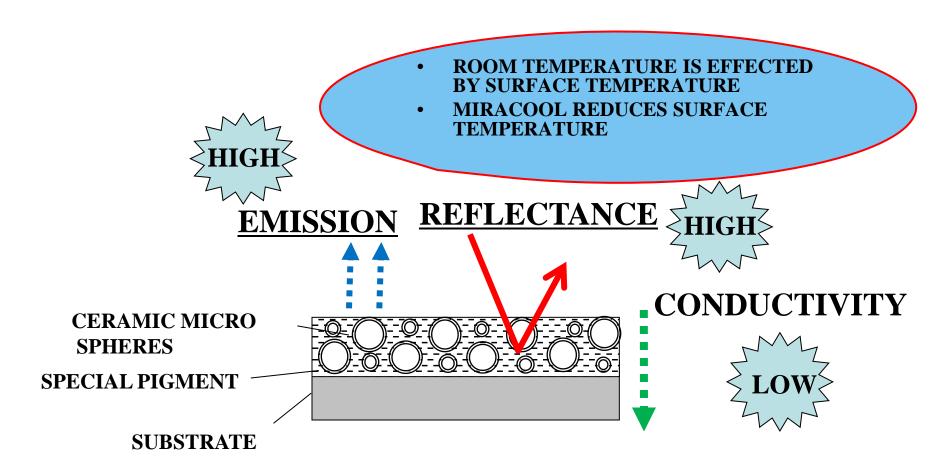
In case roof surface reflects the solar energy.

Roof does not become so hot due to high reflection of solar energy on rooftop.

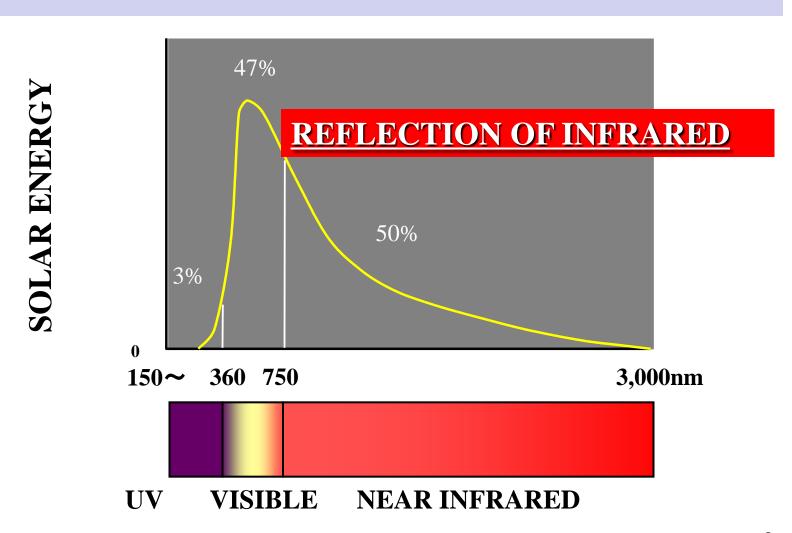
High Reflection



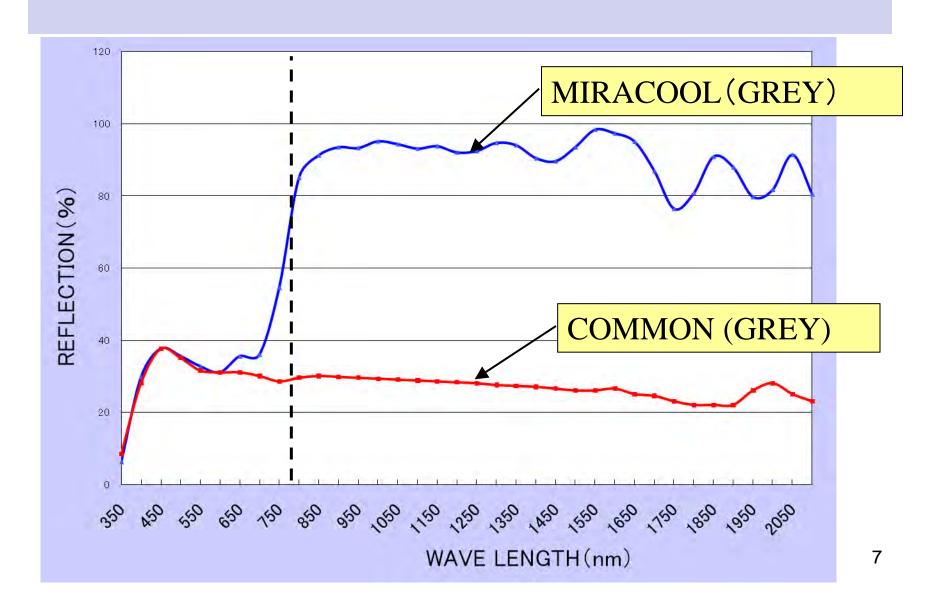
# MECHANISM OF HEAT SHIELD FUNCTION



#### SOLAR SPECTRUM

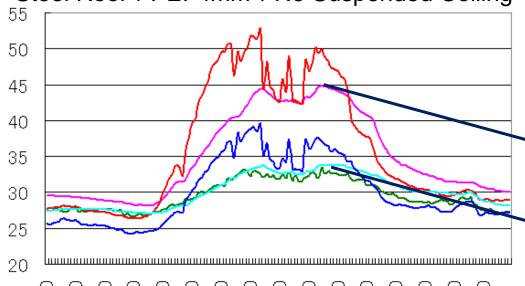


#### REFLECTION OF INFRARED



## FIELD DATA (1)



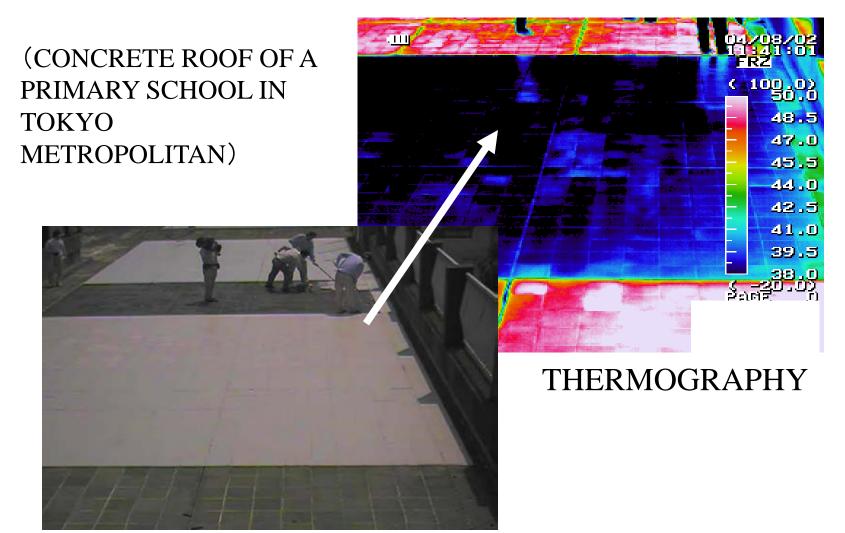




Max. of Temp. Diff. is 11°C

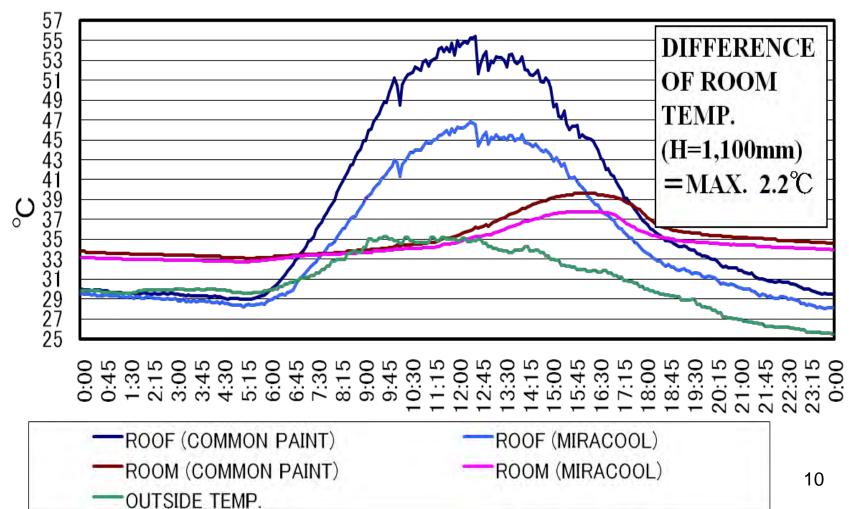
- 2010/07/25 00:00'00
  2010/07/25 01:30'00
  2010/07/25 01:30'00
  2010/07/25 03:00'00
  2010/07/25 04:30'00
  2010/07/25 10:30'00
  2010/07/25 12:00'00
  2010/07/25 18:00'00
  2010/07/25 18:00'00
  2010/07/25 18:00'00
  2010/07/25 18:00'00
  2010/07/25 18:00'00
  2010/07/25 18:00'00
  2010/07/25 18:00'00
- AMBIENT TEMP.
- ROOM TEMP(UNCOATED)
- ROOF BOTTOM (UNCOATED)
- ROOM TEMP (MIRACOOL)

## FIELD DATA (2-1)

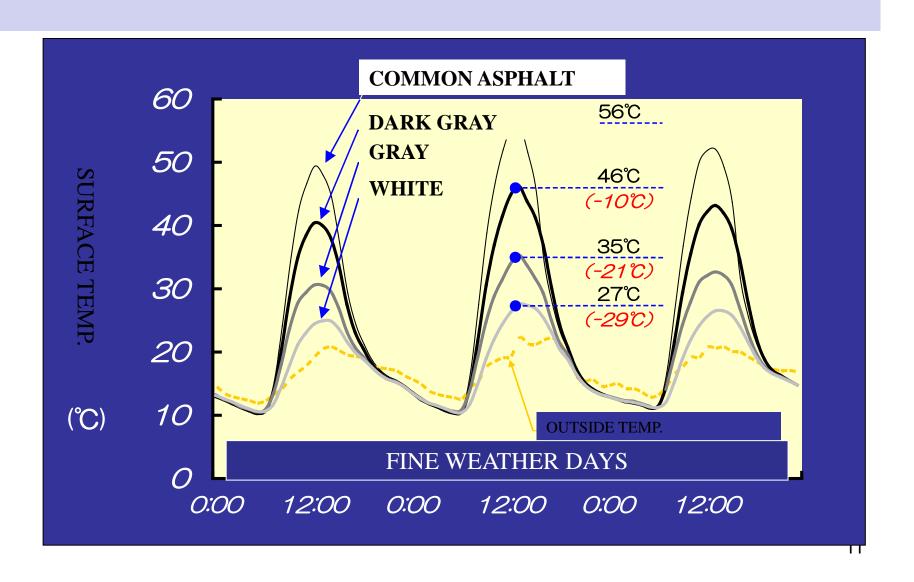


## FIELD DATA (2-2)

Concrete tile + Waterproofing + Reinforced Concrete + Suspended ceiling



#### FIELD DATA (PAVEMENT)



#### WINNER OF GRAA OF INTERNATIONAL ROAD FEDERATION





The International Road
Federation's Global Road
Achievement Awards (GRAA)
program is a competition to honor
and recognize road-industry
projects that demonstrate
excellence and innovation in road
development worldwide.

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# **BUILDINGS**



## **FACILITIES**



## **PAVEMENTS**



# ATHLETIC FILEDS

