



Delivering Ultra 'Cool' Roofing to Warming Cities

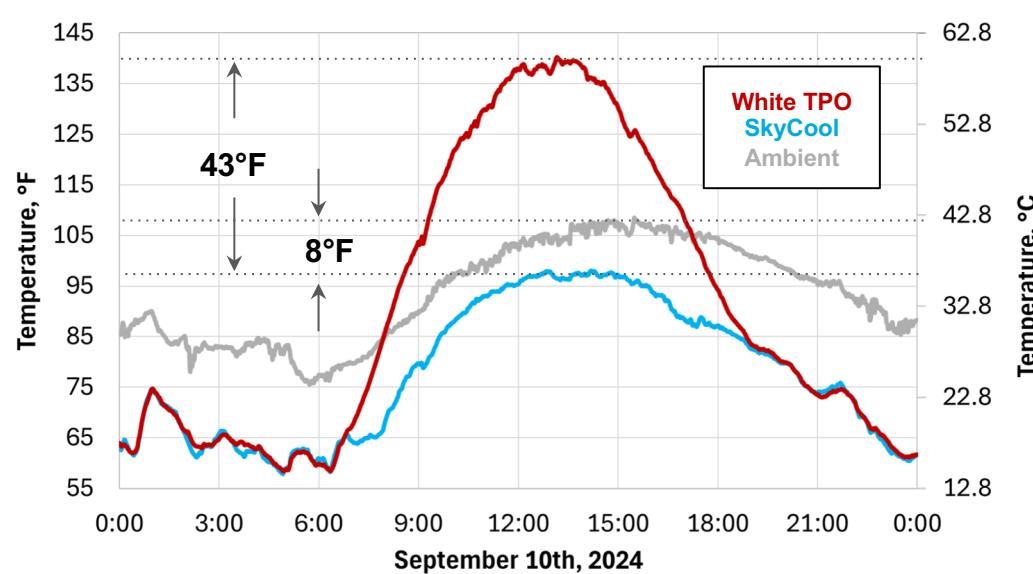
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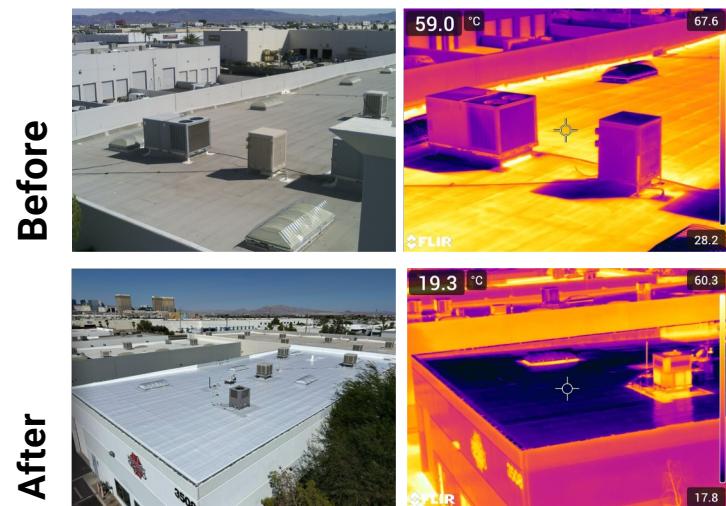
We invented a breakthrough **Passive Cooling** technology:



that can cool below the outdoor ambient, without using **energy or water**



Measurements made in Phoenix, AZ

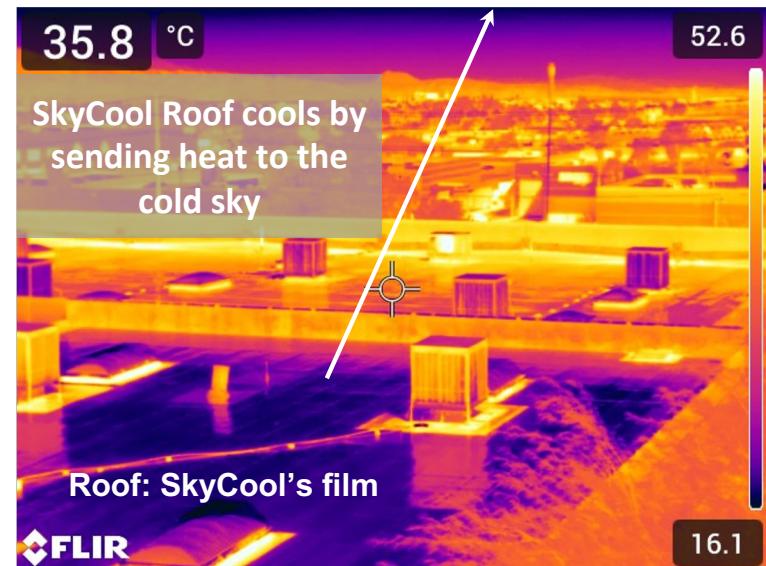
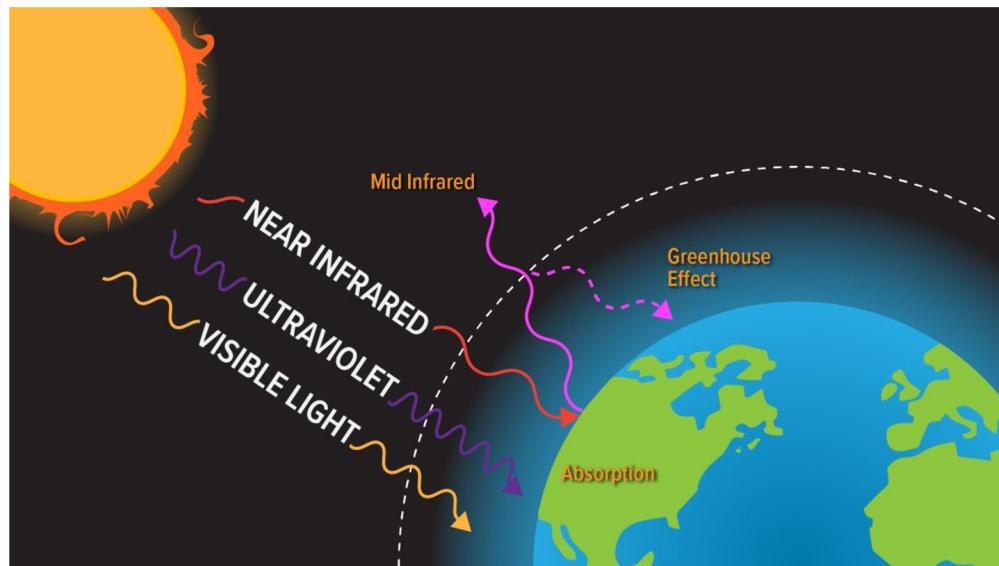


**Enabled by a natural phenomena known as:
Passive Daytime Radiative Cooling**



How Does Passive Daytime Radiative Cooling Work?

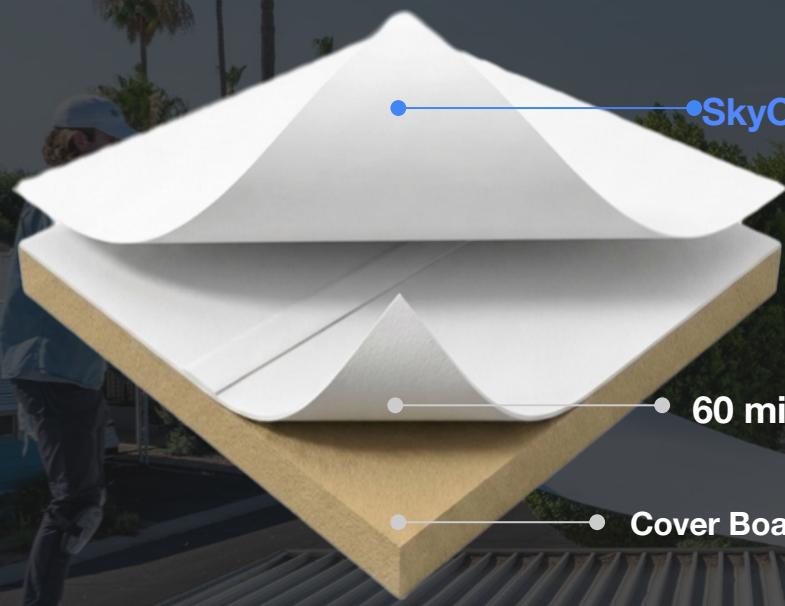
- The upper atmosphere is cold: -455°F
- The atmosphere is transparent to infrared light
- PDRC materials reflect nearly all sunlight and emit infrared light





Ultra-Cool Roofing

Enabled by Passive Daytime Radiative Cooling



It Breaks the
SRI Scale

150 effective SRI

120 max per ASTM

Turn Roofs into
HVAC Assets

20-100%

avoided building
cooling load

Reverse Heat
Islands

1-7°F

lowers local air
temperatures

Passive Daytime Radiative Cooling

Surfaces on Earth are warmed by the Sun

Surfaces radiate infrared energy

Mid-wavelength infrared passes through the “sky window” to space

Warm
daytime
temp

Cool
nighttime
temp

At night, surfaces continue to radiate mid-infrared to space, becoming colder than the air around them

Frost can form at night even when the air is above freezing

