

Macro Roundup Article

Headline: [To Help Cool a Hot Planet, the Whitest of White Coats](#)

Article Link: <https://www.nytimes.com/2023/07/12/climate/white-paint-climate-cooling.html>

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Tweet: A team at Purdue University has created a white paint that reflects the sun's rays. The paint can make surfaces as much as 8° cooler than ambient air temperatures during the day and up to 19° cooler at night.

Summary: The paint's properties are almost superheroic. It can make surfaces as much as eight degrees Fahrenheit cooler than ambient air temperatures at midday, and up to 19° cooler at night, reducing temperatures inside buildings and decreasing air-conditioning needs by as much as 40%. It is cool to the touch, even under a blazing sun, Dr. Ruan said. Unlike air-conditioners, the paint doesn't need any energy to work, and it doesn't warm the outside air. Jeremy Munday, a professor of electrical and computer engineering at the University of California, Davis, calculated that if materials such as Purdue's ultra-white paint were to coat between 1% and 2% of the Earth's surface, slightly more than half the size of the Sahara, the planet would no longer absorb more heat than it was emitting, and global temperatures would stop rising.

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Primary Topic: Innovation/Research

Topics: Database, Global Warming, Innovation/Research, News article, Productivity, Science

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Featured Image

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