EDWARD CONARD

TOP TEN The New York Times BESTSELLER

Macro Roundup Artcile

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

Author(s)	Cara Buckley
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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.

Primary Topic: Innovation/Research

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

Permalink: https://www.edwardconard.com/macro-roundup/a-team-at-purdue-university-has-created-a-white-paint-that-reflects-the-suns-rays-the-paint-can-make-surfaces-as-much-as-8-cooler-than-ambient-air-temperatures-during-the-day-and-up-to-19?view=detail

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