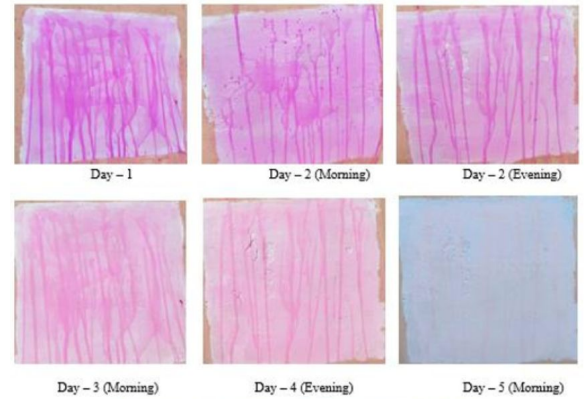




PENDING

(IN202411068911)

Self cleaning photocatalyst



NEED

The technology presents a self-cleaning photocatalyst that leverages photo-induced hydrophobicity for construction materials, providing an innovative solution for maintenance-free, environmentally-friendly buildings.

TECHNOLOGY OVERVIEW

The invention introduces a self-cleaning photocatalyst in powder form that is integrated into cementitious materials or paint. This photocatalyst works by utilizing light exposure to induce hydrophobicity, enhancing the cleanliness and longevity of surfaces.

TECHNOLOGY KEY FEATURES

The photocatalyst's unique feature is its photo-induced hydrophobicity, enabling self-cleaning surfaces when exposed to light. It is made from Ba_2TiMnO_6 , responsive to sunlight and UV.

[Read more here](#)

MARKET ANALYSIS

The global construction materials market is growing at a CAGR of 5.8% and is expected to reach \$1.5 trillion by 2033 (source: Grand View Research). Sustainable construction and eco-friendly materials are key drivers.

Target Industries

1) Construction material manufacturers, 2) Green building and sustainable construction sector, 3) Paint manufacturers developing environmentally-friendly coatings.

AT A GLANCE

- SDG 9 (Industry, Innovation, and Infrastructure), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production)

Technology is available for licensing/ co-development.

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