



Mycelium Bricks

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In the face of [climate change](#), the construction industry is seeking **low-carbon alternatives**, and **mycelium bricks** have emerged as a promising innovation.

- **Mycelium Bricks:** Created from **fungal spores**, husk, and sawdust, **mycelium bricks form a lightweight, fibrous structure** with a low environmental impact compared to traditional fired clay bricks, which emit nearly **300 million tonnes of CO₂ annually**.
 - They are **biodegradable, fire-resistant, lightweight, and good heat insulators**, making them suitable for interior panelling, filters, and electronics.
 - Potential applications include interior panelling, liquid filters, sports equipment, and electronic components.
- **Challenges Hindering Adoption:** Mycelium bricks have low **load-bearing capacity, high moisture absorption**, and a **short lifespan** due to biodegradability and vulnerability to **termites**, making them less durable than **concrete**.
 - **Tropical weather conditions, high humidity**, and **lack of infrastructure** in India make large-scale **manufacturing expensive and impractical**.
- **Potential Solutions:** **Flame retardants and Ultra Violet Coatings** can improve fire resistance and durability, while **R&D and policy support** can enhance competitiveness with **clay bricks**.

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