

# Bacteria Based Self Healing Concrete Heron Homepage

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## **Bacteria Based Self Healing Concrete**

Bacteria-based self-healing concrete was added to the panel at the section where cracking was designed to occur. The self-healing agents (spores of *B. pseudofirmus*, calcium acetate and yeast extract) were encapsulated in perlite and a protective cement/sodium silicate coat. The spores and nutrients were encapsulated separately.

## **Self Healing Concrete - an overview | ScienceDirect Topics**

A chemical engineering student from India, Abhishek Kumar Patra was announced as the winner of the Undergraduate Competition, promoting the idea of self-healing bacteria-based concrete utilising limestone-producing bacteria. He describes the benefits: "Keeping track of minor damage such as

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cracks is both extremely difficult and expensive.

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They suggested that incorporation of bacteria and calcium source nutrients as a two-component healing agent in concrete matrix induces  $\text{CaCO}_3$  precipitation upon crack formation. Qian et al. (2015) reported the healing of early age cracks in cement-based materials by CA-producing bacteria *Bacillus mucilaginous* L3.

### **Concrete Production - an overview | ScienceDirect Topics**

The very soul of his book is the unimaginable healing spectrum, both internally and externally, of modern clay therapy. This healing phenomenon moves through dozens of inspiring human-interest tales, beginning in 1987 with Mr. Graham's odyssey of building the original Crystal Cross Therapeutic Clay Center in Tecopa Hot Springs,

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