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Using bacteria to
make self-healing
concrete

**BACTERIA
BASED SELF
HEALING
CONCRETE**

Self-Healing \"Bio\"
Concrete Repairs Its
Own Cracks Self
healing concrete and

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TEDxDelft Self
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Super Strong
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Bacteria?

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Self-Healing Concrete

Hendrik Marius

Jonkers - Self-healing

concrete containing

bacteria self-healing

concrete | seminar

topic | Bacterial

concrete |

#selfhealingconcrete

#civilengineering ~~Will~~

~~there ever be a mile-~~

~~high skyscraper?~~

~~Stefan Al~~ FOAM

CONCRETE,

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Self-Healing
affordable house built
in 6 days!

How to Pour a

Concrete Driveway

~~TU Delft - Ambulance~~

~~Drone 10 Minute~~

~~Concrete Mender~~

~~Crack Repair Self~~

Consolidated

Concrete (SCC)

Demo - Woodstock

Outdoor Farmshow

(CFBA) Exponential

~~Growth: How Folding~~

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~~Paper Can Get You to~~

~~the Moon The~~

~~beneficial bacteria~~

~~that make delicious~~

~~food - Erez Garty 9~~

Futuristic Materials

Why isn't the

Netherlands

underwater? - Stefan

Al

What if cracks in

concrete could fix

themselves? -

Congrui Jin A Recipe

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Self-healing
Concrete! - Science
Snapshot

Hendrik Marius

Jonkers - Self-healing
concrete containing
bacteria

~~What is Self-healing Concrete
using Microorganism~~

~~|| Bacterial Concrete ||~~

~~Types of Concrete~~

~~#21.1~~ This concrete
can heal itself as if it
were alive Self

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Healing Concrete -
Bio concrete What is
Self-healing
Concrete? ||

Microfibers || Types of
Concrete #21

Self-healing Concrete
Research □ Built
Environment
Research Group

Bacteria Based Self
Healing Concrete
The Sporoscarcina
Pasteurii bacteria

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used in silica fume concrete, it was found that there is an improvement in strength and durability of silica fume concrete through self-healing effect .

Bacillus Sphaericus bacteria was used in concrete to check the surface treatment and the results reveal that bacterial carbonate

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Bacteria Based

Self-healing concrete can be used as an alternative surface treatment for concrete [18].

Bacteria based self healing concrete □ A review ...

Self-healing Concrete is also called Bio concrete or Bacterial Concrete. It's specially made to

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increase the lifespan or the durability of concrete structure by the self-healing action of that concrete. A Bacterial genus named Bacillus is mixed with the healing agent. The bacteria are capable of surviving in an extremely alkaline environment and can dormant up to 200

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What is self healing
concrete | Bacterial
concrete | with ...
Bacteria-based self-
healing concrete. The
concept of bacteria-
based self-healing
concrete was
developed in the
Netherlands, has
received considerable

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interest from the press and is the subject of numerous UK research programmes.

Concrete often cracks due to a variety of processes [see 'construction related cracks'] and in certain circumstances can self-heal those cracks up to a width of 0.3mm [see

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Bacteria Based Self-healing Concrete Heron Homepage

Bacteria-based self-healing concrete
2 Viable bacteria as self healing agent The bacteria to be used as self healing agent in concrete should be fit for the job, i.e. they should be able to perform long-term

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effective crack
sealing, preferably
during the total
constructions life time.
The principle
mechanism of
bacterial crack
healing is that the

Bacteria-based self-
healing concrete
Due to this concrete
needs to be

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rehabilitated. To
surmount these
situations self-healing
techniques are
adopted. By the
addition of urease
engendering bacteria
along with calcium
source results in...

Bacteria based self
healing concrete □ A
review | Request PDF

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Bacteria based self-healing concrete: The selection of the bacteria is depend on the survive capability of bacteria in the alkaline environment. Most of the microorganisms die in an environment with pH value of 10 or above (Edvardsen C, 1999). Strains of the bacteria genus

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Bacillus will be found to succeed in high alkaline environment.

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A Review Paper on
Self Healing Concrete
- IOSR-JEN

Several chemical products are currently in use for consolidation and crack repair, but a new technique that

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has been the focus of much research efforts over the last decade is the bacteria-based calcium carbonate precipitation. This technique is now slowly making its way towards practical applications.

Bacteria-based repair
and self-healing of

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Another example of self-healing of concrete from bacteria is that presented by De Belie, where it packages bacterial spores in a melanin formaldehyde shell, generating a concrete that can cure...

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(PDF) Development
of a bacteria-based
self healing concrete
Mechanism of

Bacterial Concrete

Self-healing concrete
is a result of biological
reaction of non-
reacted limestone and
a calcium based
nutrient with the help
of bacteria to heal the
cracks appeared on
the building. Special

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type of bacteria known as Bacillus are used along with calcium nutrient known as Calcium Lactate.

Bacterial Concrete or
Self Healing Concrete
For Crack Repairs

In conclusion, the
results presented in
this study show that

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the applied two-component bio-chemical self-healing agent, consisting of a mixture of bacterial spores and calcium lactate, can be successfully applied to promote and enhance the self-healing capacity of concrete as the maximum healable crack width more than

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Quantification of crack-healing in novel bacteria-based ...

It is demonstrated that for the encapsulation method used and the agents chosen it is possible to produce self-healing concrete with similar early-age and mechanical

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properties to that of normal concrete. This self-healing concrete was then used in a reinforced concrete wall, and the initial findings are described.

Design and
performance of
bacteria-based self-
healing Concrete

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An approach to autonomous self-healing of such concretes is the utilization of microbiologically-induced calcite-precipitation. This approach uses the metabolic activity of bacteria and biomineral precursors embedded within the concrete to form an inorganic material,

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Bacteria-based self-healing concrete: Effects of ...
Furthermore, the bacterial type, its varying concentrations & curing procedures as well as the carrier compound used for

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assimilation of bacteria play an important role toward efficient self-healing of concrete (Hammes et al., 2003).

Researchers have used different types of bacteria in mortar and concrete including *Bacillus Pastuerii*, *Shewanella*, *E. Coli*, *Bacillus Pseudofirmus* and *Bacillus ...*

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Applications of self
healing nano

concretes -

ScienceDirect

Due to the harsh
conditions of concrete
(high alkalinity and
small pore size),
bacteria need to be
immobilized
beforehand.

Therefore the

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properties of the carrier candidates used for immobilization were also evaluated on the aspects of the pore properties and the compatibility with the cementitious matrix.

Bacteria-Based Self-Healing Concrete:
Effect of Bio-agents ...

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In recent years a bacteria-based self healing concrete is being developed in order to extend the service life. A two component healing agent is added to the concrete mixture. The agent consist of bacteria and an organic mineral precursos compound.

What is Self Healing

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Self Healing Concrete
| Concrete Civil
Engineering
Bacteria-Based Self
Healing Concrete Self
healing concrete was
invented by Henk
Jonkers, a
microbiologist and
professor at Delft
University of

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Technology in the
Netherlands. Jonkers
began developing self
healing concrete in
2006. After three
years of
experimenting, he
found the perfect
healing agent -
bacillus.

What is Self-Healing
Concrete? | Lorman

Page 36/39

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Bacteria Based Self-Healing Services

Two types of bacteria-based additives (Type 1 and Type 2) were developed to improve the concrete self-healing capacity mainly achieved by bacteria-induced mineral precipitations.

Performance of Two
Bacteria-Based

Page 37/39

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Additives Used for
Self ...

This autonomous self-healing process

utilizes mineral producing bacteria to help mend cracking in concrete, thereby enhancing the reliability and lifetime of the material. The bacterial spores are embedded into the concrete, along with

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organic compounds in
capsules of polylactic
acid for protection.
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