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AN EXPERIMENTAL WORK ON CONCRETE BY ADDING BACILLUS SUBTILIS Experimental Study On Self Healing

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Geosynthetic clay liners (GCLs), which have a very low permeability to water and a considerably high self-healing capacity, are widely used in liner s...

Experimental study on the permeability and self-healing ...

This study experimentally investigated the self-healing behavior, referring to the naturally occurring water permeability decrease, of fractured rocks exposed to water-CO₂-rock interaction (WCRI). The experiment was conducted on prefractured specimens of three rock types typical of the Shendong coalfield: coarse-grained sandrock, fine-grained sandrock, and sandy mudrock. During the ...

Experimental Study on the Self-Healing Behavior of ...

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An experimental study on strength and self healing characteristics of bacterial concrete, International Journal of Advance Research, Ideas and Innovations in Technology, www.IJARIIIT.com. Asif Ahmad Ganie, Javaid Alam, Mohiyuddin C. S., Mohammad Tafzeel Qureshi, Iqra Rashid (2020).

[An experimental study on strength and self healing ...](#)

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Twelve experiments are conducted. Experimental results indicate that the self-healing of the crack is induced during the testing under the water pressure 300 kPa. The maximum of the flow rate through the sample before the occurrence of the self-healing of the crack (called as critical flow rate in the present study) is different in different experiments.

Experimental study on self-healing of crack in clay ...

In this project experimental investigation were carried out to evaluate the influence of bacillus subtilis on compressive strength, split tensile strength, water absorption and self-healing properties. And it is made to heal the crack by the addition of the bacteria in the concrete also increase the strength.

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EXPERIMENTAL STUDY ON SELF-HEALING CHARACTERISTICS OF ...

Experimental Study on Self-healing Concrete with the Effect of Bacillus Subtilis Bacteria to Improve the Strength and Sustainability of the Concrete 1911 which are used to know the crack patterns...

(PDF) Experimental Study on Self-healing Concrete with the ...

Self healing is the tightening of cracks, probably due to the precipitation of calcium carbonate and the clogging of particles. When self healing is considered, a crack has healed when it is liquid tight again. When cracks heal in this way, the strength recovery is limited. Self healing can only occur for cracks smaller than 0.2 mm.

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Experimental Study of Behavior of Self Healing Concrete

Based on the strength analysis of specimens before and after self – healing, the self – healing effect of concrete is evaluated. By simulating the closed heal agent flowing and penetrating into the concrete crack surface under the capillary tension, the influence of crack width to the healing effect is analyzed. Add to Cart.

Experimental Research on the Self-Healing Performance of ...

Experimental Study On Self Healing Geosynthetic clay liners (GCLs), which have a very low permeability to water and a considerably high self-healing capacity, are widely used in liner s...

Experimental study on the permeability and self-healing...

Experimental Study on Self-healing Concrete with the Effect of Bacillus Subtilis Bacteria to Improve

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An Experimental Study on Self Healing Concrete Using Bacteria
Author : N. Srimathi, K. Anu Indravathi , M. Hajira Amreen and
S. Indhuurekha Volume 7 No.2 July-December 2018 pp 16-19
Abstract

An Experimental Study on Self Healing Concrete Using ...

Self-healing concrete can produce limestone biologically to repair cracks that appear on the surface of concrete structures. Specially selected types of the bacteria Bacillus is added to the ingredients of the concrete when it is being mixed. These self-healing content can lie inactive within the concrete up to 200 years.

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Experimental Study on Flexural Behaviour of Self Healing ...

Experimental Study on Self-Healing Capability of FRCC Using Different Types of Synthetic Fibers September 2011 Journal of Structural and Construction Engineering (Transactions of AIJ) 76(667):1547 ...

Experimental Study on Self-Healing Capability of FRCC ...

Self healing imidazolium based ionene polyamide membranes: an experimental study on physical and gas transport properties

Self healing imidazolium based ionene polyamide membranes

...

Self-healing technology is a new field within material technology. It represents a revolution in materials engineering and is changing the

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way that materials behave. Incorporating self-healing technology into the road design process has the potential to transform road construction and maintenance processes by increasing the lifespan of roads and eliminating the need for road maintenance.

Self-Healing Technology for Asphalt Pavements | SpringerLink

Willem De Muynck et al. made a concrete specimen to study and for performing the test on the self- healing nature of concrete by using the ordinary Portland cement CEM 152.5 N, Sand, Aggregate and Water. The mould having the following dimension 150 mm X 150 mm X 150 mm, 150 mm X 150 mm X 600 mm and 160 mm X 160 mm X 70 mm were used.

A Review Paper on Self Healing Concrete

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Experimental Study on Self Healing Concrete using Micro Encapsulation - written by K. Ramya, S. Hemavathi published on 2018/04/24 download full article with reference data and citations

Experimental Study on Self Healing Concrete using Micro ...

Many researchers done their work on the self healing nature of concrete and they had found the following result that bacteria improves the property of conventional concrete such as increase in 13.75% strength increased in 3 days, 14.28% in 7 days and 18.35% in 28 days.

Experimental study on bacteria based self-healing concrete ...

This thesis presents details of an experimental and numerical programme of study undertaken on the fracture and self-healing of

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cementitious materials at Cardiff University. The experimental component reported in the thesis consists of an extensive programme of tests conducted on reinforced mortar specimens, autonomically healed with a low viscosity cyanoacrylate adhesive.

Experimental Study and Modelisation of Self-healing Cementitious Materials with Mineral Additions An Experimental Study of the Self-healing Capability of an Actively Reinforced Carbon-fiber Composite Self-Healing Cementitious Materials Experimental Investigation on the Self-Healing Efficiency of Araldite 2011 Adhesive Reinforced with Thermoplastic Microparticles Self Healing Materials BIO-BASED MATERIALS FOR REPAIRING

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CRACKS IN CONCRETE: AN EXPERIMENTAL STUDY Self-Healing Phenomena in Cement-Based Materials An Experimental Study to Compare the Healing Rate of Decubitus Ulcers in a Self-control Group of Hospitalized Patients Self-Healing Construction Materials Experimental and Numerical Study of the Fracture and Self-healing of Cementitious Materials Advances in Civil Engineering Sustainable Construction and Building Materials Creep, Shrinkage and Durability Mechanics of Concrete and Concrete Structures, Two Volume Set Self-Healing Concrete Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations Measuring, Monitoring and Modeling Concrete Properties An Experimental and Numerical Study of Flow and Healing Mechanisms in Self-healing Cementitious Materials Emerging Design Solutions in Structural Health Monitoring

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Systems Self-healing Materials Environmental Restoration

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