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Abstract. Cement-based composite materials consist of hardened cement paste as a base, which is formed by hydration between

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cement and water, and a mixture of various inorganic, metallic, and polymeric materials.

Cement-Based Composite Materials | SpringerLink

P. Purnell, in Durability of Concrete and Cement Composites, 2007. 9.2.6 Volume stability and cracking. Many of the long-term performance problems of fibre-reinforced cement composites are not the result of changes in the composites' properties, but are induced by volume changes in the material caused by temperature and humidity changes. The ...

Cement Composite - an overview | ScienceDirect Topics

Graphene based cement composite is prepared to improve building environment. • Electrical conductivity of 16.2 Scm^{-1} is measured with 15 wt% GNP inclusions.. Seebeck coefficient of $34 \mu\text{VK}^{-1}$ is measured with 15 wt% GNP inclusions.. Hall measurements show that the composites exhibit p-type

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Graphene enhanced thermoelectric properties of cement

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Pages ...

This journal is designed to reflect current developments and advances being made in the general field of cement-concrete composites technology and in the production, use, and performance of cement-based construction materials. The word cement is interpreted in a wide sense, including not only Portland cement but also blended cements and other binding materials.

Cement and Concrete Composites - Journal - Elsevier

(2018). Effects of metakaolin on mechanical and microstructural properties of ultra-high performance cement-based composites. Journal of Sustainable Cement-Based Materials: Vol. 7, No. 5, pp. 296-310.

Effects of metakaolin on mechanical and microstructural

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Engineered Cementitious Composite (ECC), also called Strain Hardening Cement-based Composites (SHCC) or more popularly as bendable concrete, is an easily molded mortar-based composite reinforced with specially selected short random fibers, usually polymer fibers. Unlike regular concrete, ECC has a strain capacity in the range of 3–7%, compared to 0.01% for ordinary portland cement (OPC ...

Engineered cementitious composite - Wikipedia

reinforced cement based composites and suggests future directions in FRC development. Special focus is placed on micromechanics based design methodology of strain-hardening cement based composites. As example, a ... composites with less than 5% fiber volume fraction, J

ENGINEERED CEMENTITIOUS COMPOSITES (ECC) - TAILORED ...

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Author(s) G. Moriconi. Abstract. Reactive Powder Concrete (RPC), with compressive strength higher than 200 and up to 800 MPa as well as flexural strength higher than 60 and up to 150 MPa, at the moment potentially represents a new material for structural use in building and engineering in general, even though its application fields have not yet been well defined.

Cement-based Composites For Structural Use

Nanocement has very high performance; for instance, the deflection strength of nanocement-based concrete and ordinary Portland cement-based concrete at 2-day hardening are around 6.3–7.1 MPa and 2.9 MPa with corresponding compressive strengths of 49.3–54.7 MPa and 21.3 MPa, respectively.

Cement Types, Composition, Uses and Advantages of ...

Alkali-silica reaction (ASR) attack is one of the most significant durability concerns in cement-based materials. In this paper, the

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drinking water treatment sludge (DWTS), which is a typical by-product from the drinking water treatment industry, was reused as supplementary cementitious material to mitigate the degradation of mortar resulting from ASR attack.

Utilization of Drinking Water Treatment Sludge as Cement ...

crete and ordinary Portland cement-based concrete at 2-day hardening are around 6.3 – 7.1 MPa and 2.9 MPa with corresponding compressive strengths of 49.3 – 54.7 MPa and

(PDF) Cement Types, Composition, Uses and Advantages of ...

Present paper deals with the experimental study of the composition of refractory fiber-reinforced aluminous cement based composites and its response to gradual thermal loading. Basalt fibers were applied in doses of 0.25, 0.5, 1.0, 2.0, and

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4.0% in volume. Simultaneously, binder system based on the aluminous cement was modified by fine ground ceramic powder originated from the accurate ceramic ...

Physical and Mechanical Properties of Composites Made with ...

22.64; Makerere University ... cement composites using saw dust. A total of 48 bricks were made in the Faculty of Forestry and Nature Conservation laboratory based on volume ratios of sawdust to ...

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