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Use of GRP industrial by-products in cement based composites

Volume 64, 14 August 2014, Pages 288-292. Technical Note. ... Carbon fiber cement based composites are widely used as electromagnetic wave absorbing material. However, freezing–thawing cycles can affect their wave absorbing function. In this paper, specimens of the composites with different carbon fiber (CF) contents were prepared. ...

Tensile Behavior of Cement-Based Composites with Random ...

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.

High-performance fiber-reinforced concrete: a review ...

This book considers the properties and behaviour of cement-based materials from the point of view of composite science and technology. It deals particularly with newer forms of cement-based materials and also with a composite approach to conventional materials and their special properties. Emphasis is put on non-conventional reinforcement and design methods, problems at interfaces in the ...

Cement and Concrete Composites | Vol 64, Pages 1-92 ...

Cement-Based Composites: Volume 64 by Sidney Mindess, 9780931837296, available at Book Depository with free delivery worldwide.

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

The amount of CNCs liquid suspension added to cement composites was from 0% to 0.8% by volume of cement content. The dispersion behavior of the CNCs in aqueous suspension was found to be more ...

Cement-based Composites For Structural Use

2. Nanocelluloses in the Cement and Fiber-Cement Industry. Two main drawbacks restrict the performance of cellulose fiber cement composites (C-FCCs): (1) the maximum weight content of cellulosic fibers that can be incorporated into the composites; and (2) the long-term durability of the composite [].In a Hatschek process, with a good dispersion of the fibers in the fiber cement slurry, the ...

Cement-Based Composites: Volume 64 : Sidney Mindess ...

Abstract. Cement-based composite materials consist of hardened

cement paste as a base, which is formed by hydration between cement and water, and a mixture of various inorganic, metallic, and polymeric materials.

Cement Composite - an overview | ScienceDirect Topics

A commercial Portland-limestone blended cement type CEM II/A-L 42.5 R according to the European Standards EN-197/1 was used. The Blaine fineness of cement was 0.415 m 2 /g and its specific gravity was 3.05. The chemical composition of cement is reported in Table 1.Natural calcareous sand, 5 mm maximum size, volume mass of 2620 kg/m 3 and water absorption of 3.0% was used as aggregate.

Effect of Metakaolin on Strength and Efflorescence ...

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

Cement Based Composites Volume 64

Cement and Concrete Composites. Supports open access. 6.59 CiteScore. 5.172 Impact Factor. Articles & Issues. About. Publish. Latest issue All issues. Search in this journal. Volume 64 Pages 1-92 (November 2015) Download full issue. Previous vol/issue. Next vol/issue. Actions for selected articles. Select all / Deselect all.

Effect of Metakaolin on Strength and Efflorescence ...

This study investigated the basic mechanical and microscopic properties of cement produced with metakaolin and quantified the production of residual white efflorescence. Cement mortar was produced at various replacement ratios of metakaolin (0, 5, 10, 15, 20, and 25% by weight of cement) and exposed to various environments. Compressive strength and efflorescence

quantify (using Matrix ...

Engineered cementitious composite - Wikipedia

In this paper, the tensile properties of cement-based composites containing random discontinuous steel fibers are reported. Direct tensile tests were performed to study the effects of fiber length (hence fiber aspect ratio), interfacial bonding, and processing conditions on composite properties.

Cement-Based Composite Materials | SpringerLink

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.

Potential of Carbon Nanotube Reinforced Cement Composites ...

The inclusion of metakaolin in cement-based composites enhances compressive strength through the filler effect in the interfacial transition zone between the cement paste and aggregate particles. In addition, CH gels are quickly removed during the hydration of cement with metakaolin and actually accelerate cementitious hydration.

Cement and Concrete Composites - Journal - Elsevier

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-based Composites: Materials, Mechanical Properties ...

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 ...

Mechanical properties of concrete composites subject to ...

In recent years, an emerging technology termed, “High-Performance Fiber-Reinforced Concrete (HPFRC)” has become popular in the construction industry. The materials used in HPFRC depend on the desired characteristics and the availability

of suitable local economic alternative materials. Concrete is a common building material, generally weak in tension, often ridden with cracks due to ...

Freezing–thawing effects on electromagnetic wave ...

All experimental tests were carried out on 150 mm cubes which are made of three concrete composites with different composition ().The investigated concrete composites are composed of easy available and widely used components which include Portland cement 42,5 R characterized by high early strength in accordance with CSN EN 197–1 , water and siliceous aggregate.

Nanocelluloses: Natural-Based Materials for Fiber ...

Carbon nanotubes (CNTs) are a virtually ideal reinforcing agent due to extremely high aspect ratios and ultra high strengths. It is evident from contemporary research that utilization of CNT in

producing new cement-based composite materials has a great potential. Consequently, possible practical application of CNT reinforced cementitious composites has immense prospect in the field of applied ...