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Flexural behavior of ultra-high performance hybrid fiber reinforced concrete at the ambient and elevated temperature

1. Introduction. Ultra-high performance fiber reinforced concrete (UHPFRC) is generally defined as a cement-based...
2. Experimental program. Table 1 shows the mix proportions of ...

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Flexural behavior of ultra-high performance hybrid fiber ...

This paper presents experimental results of double-lap joints of fiber-reinforced polymer (FRP) or steel splice plates bonded and bolted to flanges and web of pultruded hybrid I-beams with carbon F...

Flexural Behavior of Pultruded Hybrid Fiber-Reinforced ...

Flexural behavior of hybrid concrete-filled fiber reinforced polymer tube columns 1. Introduction. CFFTs (concrete-filled FRP (fiber-reinforced polymer) tubes) are a viable alternative to conventional... 2. Development of HCFFT. The development of the HCFFT system became possible by recent ...

Flexural behavior of hybrid concrete-filled fiber ...

Hybrid fiber use on flexural behavior of ultra high performance fiber reinforced concrete beams 1. Introduction. Over the last two decades, the production of Ultra-High Performance Fiber Reinforced Concrete (UHPFRC)... 2. Experimental program. In the test program, total of twelve UHPFRC beams were ...

Hybrid fiber use on flexural behavior of ultra high ...

The addition of PVA fiber in TRGs yielded the deflection hardening behavior. The flexural strength of heat cured hybrid PVA fiber-AR glass fiber TRG is higher than its ambient cured counterpart TRG. However, in the case of deflection at peak load, the opposite phenomenon is observed.

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Flexural Behavior of Hybrid PVA Fiber and AR-Glass Textile ...

FLEXURAL BEHAVIOR OF HYBRID FIBER REINFORCED CONCRETE BEAMS H S Jadhav¹ and M D Koli^{1*} In this paper flexural behavior of hybrid fiber reinforced concrete beams is investigated. Combination of steel and polypropylene fibers was used as hybrid fibers. In hybridization, steel

FLEXURAL BEHAVIOR OF HYBRID FIBER REINFORCED CONCRETE BEAMS

The experimental result shows that the ductility behavior of steel fibre reinforced beam and Hybrid fibre reinforced beam is high compared to controlled concrete. KEY WORDS: Hybrid, Steel Fibre, Polyester Recron Fibre, Coir Fibre, Ductility 1.0 INTRODUCTION Plain cement concrete possesses limited ductility and little resistance to cracking.

Flexural Behaviour Of Solo And Hybrid Fibre Concrete-A ...

Comparative flexural behavior of Hybrid Ultra High Performance Fiber Reinforced Concrete with different macro fibers 1. Introduction. Much research has been conducted to enhance the tensile strength and ductility of Ultra High... 2. Research significance. Very little information is available about ...

Comparative flexural behavior of Hybrid Ultra High ...

The effect of short polyvinyl alcohol (PVA) fiber as hybrid reinforced with alkali-resistant (AR) glass fiber textile on the flexural behavior of above TRC and TRGs is also studied. Results

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show deflection hardening behavior of both TRGs with higher flexural strength in heat cured TRG and higher deflection capacity at peak load in ambient air cured TRG.

Flexural Behavior of Hybrid PVA Fiber and AR-Glass Textile ...

It is worth to mention that, Ibrahim et al [Ibrahim et al 2005] found that the addition of plain steel, or polypropylene, or hybrid fiber to the plain concrete with 1:1 ratio of coarse to fine...

FLEXURAL BEHAVIOR OF PARTIAL DEPTH OF HYBRID FIBER ...

Title: Effectiveness of Hybrid Fibers on Flexural Behavior of Concrete Beams Reinforced with Glass Fiber-Reinforced Polymer Bars. Author(s): Ganapati M. Patil, M. Chellapandian, and S. Suriya Prakash. Publication: Structural Journal. Volume: 117. Issue: 5. Appears on pages(s): 269-282

Effectiveness of Hybrid Fibers on Flexural Behavior of ...

The test results portray that the addition of hybrid fibers stiffen the post-cracking response and increases the energy absorption capacity. The failure mode changed from flexure-shear (brittle) to flexure (ductile) mode with the addition of hybrid fibers.

Flexure-Shear Behavior of Hybrid Fiber-Reinforced ...

The validation study presented the flexural behaviors of HPSFRC T-beams with different reinforcement configurations. The test results of the HPSFRC beams were assessed in terms of the behavior of a conventional reinforced concrete T-beam and a composite profiled T-

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beam.

Flexural Behavior of New Hybrid Profiled Steel-FRP T-Beams ...

However, the hybrid effect has been mostly studied by tensile tests, and there has been less attention on the hybrid effects under compressive or flexural loadings. This work aims to investigate the compressive and flexural behavior of a UHMPEF/CF/EP (epoxy) system and to elucidate the related hybrid effects. 2.

Compressive and flexural behavior of ultra-high-modulus ...

In order to obtain the fatigue life of layered hybrid fiber reinforced concrete (LHFRC) at different stress levels, flexural fatigue tests were carried out on specimens. The relation between fatigue lives and stress levels was simulated using the two-parameter Weibull distribution.

Flexural fatigue behavior of layered hybrid fiber ...

Two kinds of carbon aramid/epoxy hybrid woven composite specimens with different fiber orientations were prepared. The progressive flexural damage behaviors of the composites were studied. The failure process was monitored in real time by acoustic emission during the test, and the characteristics of the acoustic emission signals originating from the damage were deeply studied.

Flexural progressive damage and failure behavior of carbon ...

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In this paper, a new hybrid construction of hollow core slab-type members, in which a middle hollow core layer of ordinary Portland cement concrete is sandwiched in-between a top and bottom layer of steel fiber-reinforced ultra -high performance concrete, is explored to examine their structural adequacy. The tests of beam-type specimens, cast without any traditional steel reinforcement, have ...

Flexural behavior of hybrid hollow-core slab built with ...

Flexural Behavior of Unidirectional Polyethylene-Carbon Fibers-PMMA Hybrid Composite Laminates INTRODUCTION High-performance polyethylene fibers (PEF) are currently produced by solution (gel) spinning of ultrahigh molecular weight polyethylene and possess unique mechanical prop- erties in terms of high strength-to-weight ratios and stiff-

Flexural behavior of unidirectional polyethyleneâ carbon ...

In this paper flexural behavior of hybrid fiber reinforced concrete beams is investigated. Combination of steel and polypropylene fibers was used as hybrid fibers. In hybridization, steel fibers of aspect ratio 30 and 50 were used and aspect ratio of polypropylene fibers was kept constant.