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Columns with High-
Strength Steel and
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Behavior Of Hybrid

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Fiber Behavior Of

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...

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2. Experimental
program. Table 1
shows the mix
proportions of ...

Concrete

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

This paper presents
experimental results
of double-lap joints of
fiber-reinforced
polymer (FRP) or

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steel splice plates
bonded and bolted to
flanges and web of
pultruded hybrid I-
beams with carbon

F...
Beams

Flexural Behavior of
Pultruded Hybrid
Fiber-Reinforced ...

Flexural behavior of
hybrid concrete-filled
fiber reinforced
polymer tube columns

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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

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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

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(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.

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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.

Flexural Behavior of
Hybrid PVA Fiber and

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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

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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

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reinforced beam is high compared to controlled concrete.

KEY WORDS: Hybrid, Steel Fibre, Polyster Recron Fibre, Coir Fibre, Ductility 1.0

INTRODUCTION

Plain cement concrete possesses limited ductility and little resistance to cracking.

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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

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of Ultra High... 2.

Research
significance. Very little
information is
available about ...

Beams

Comparative flexural
behavior of Hybrid
Ultra High ...

The effect of short
polyvinyl alcohol
(PVA) fiber as hybrid
reinforced with alkali-
resistant (AR) glass

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Behavior of
fiber textile on the
flexural behavior of
above TRC and TRGs
is also studied.

Results 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.

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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...

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Behavior Of

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.

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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

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Behavior Of
Hybrid Fiber
Reinforced
Concrete
Beams

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

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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

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Behavior of
Composite profiled T-
beam.

Hybrid Fiber

Reinforced Behavior of New Hybrid Profiled Steel-FRP T-Beams

Beams

...

However, the hybrid effect has been mostly studied by tensile tests, and there has been less attention on the hybrid effects under

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Behavior of
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 ...

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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.

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Behavior Of

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

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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

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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

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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 properties in terms of high strength-to-weight

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Behavior and stiff-

Hybrid Fiber

Flexural behavior of
unidirectional

polyethyleneâ carbon

Beams

In this paper flexural behavior of hybrid fiber reinforced concrete beams is investigated.

Combination of steel and polypropylene fibers was used as

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hybrid fibers. In hybridization, steel fibers of aspect ratio 30 and 50 were used and aspect ratio of polypropylene fibers was kept constant.

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