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## **Flexural Behavior Of Hybrid Fibre**

A hybrid use of PE and steel fiber enhances flexural performance of UHPFRC. • Higher water/binder ratio and smaller aggregate reduce flexural behavior of UHPFRC. • High temperature

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exposure significantly reduces flexural behavior UHPFRC. • PP fiber is effective, but PE fiber is not effective on spalling prevention.

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

This paper presents experimental results of double-lap joints of fiber-reinforced

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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 ...**

This hybrid CFFT (HCFFT) system integrates the required longitudinal steel

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reinforcement into the FRP shell in the form of 30- $\mu\text{m}$  fibers. This study details the experimental results from two CFFT and four HCFFT circular specimens tested under half-cyclic four-point bending. The effect of concrete slippage inside the tube was investigated.

## **Flexural behavior of hybrid concrete-**

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@inproceedings{Devika2015StudyOF, title={Study of Flexural Behavior of Hybrid Fibre Reinforced Geopolymer Concrete Beam}, author={Devika and D. R. Nath}, year={2015} } Devika, D. R. Nath Published 2015 Concrete is the most common building material in the world and its use has been increasing



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## **Flexural Behavior Of Hybrid Fibre Reinforced Self**

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

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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.

## **FLEXURAL BEHAVIOR OF HYBRID FIBER REINFORCED CONCRETE BEAMS**

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compared with the control mix without hybrid fibres. Then the behavior flexural member with and without elastomeric pads are compared, they are also compared with conventional specimens with and without elastomeric pads. The results show that the flexural behavior of specimen with fibres and elastomeric pads showed better performance.

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Keyword. s---

## **Experimental Study on Flexural behaviour of Hybrid Fibre ...**

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:

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Hybrid, Steel Fibre, Polyster 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 ...**

The influence of fiber blending on the

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flexural performance of four Hybrid UHPFRCs was investigated. Four macro fibers are long smooth (LS-), two hooked (HA- and HB-), and twisted (T-) steel fibers. The order of flexural performance of H-UHPFRC according to the types of macro fiber is as follow: HB- > T- > LS- > HA- fiber. The ductility of H-UHPFRC in flexure is highly dependent upon the

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tensile strain capacity of H-UHPFRC.

## **Comparative flexural behavior of Hybrid Ultra High ...**

The improvement of the flexural behavior is dependent on fiber type, fiber volume fraction, fiber orientation, and the bond between fibers and cement matrix. The results of the FRC



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specimens reinforced with 0.6% fibers show that a drop in the flexural strength of concrete occurs for all curing ages after the appearance of the first crack.

## **Flexural behavior and durability properties of high ...**

To study the effect of hybrid fibres on the flexural behavior of steel fibre

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reinforced GPC. To compare the load deflection behavior, first crack load, crack pattern and failure mode, ductility index, energy absorption capacity and ultimate load of HFRGPC beams with GPC beams. 2. Preliminary Investigation

## **Study of Flexural Behavior of Hybrid Fibre Reinforced ...**

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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.

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

The main focus of this study is on investigating flexural and shear strength behaviour of this hybrid fibre reinforced self compacting concrete containing silica fume and M-sand. Keywords- Hybrid fibre, Steel fibre, Polypropylene

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fibre, Silica fume. INTRODUCTION. Concrete is a widely used construction material around the world.

## **Study on Flexural and Shear Behaviour of Hybrid Fibre ...**

Request PDF | Flexural behavior of hybrid (steel-polypropylene) fibre reinforced concrete beams |

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Performance of conventional Concrete is enhanced by the addition of fibres in concrete. The ...

## **Flexural behavior of hybrid (steel-polypropylene) fibre ...**

The addition of PVA fiber in TRGs yielded the deflection hardening behavior. The flexural strength of heat cured hybrid

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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 AR-Glass Textile ...**

fiber ratio 12.5 % (HFRP-B), showed a

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yielding zone at load about 84 % of the ultimate load, also the load strain rate turned to be clearly lower than after yielding. The same behavior was observed for bars manufactured with hybrid glass / fourteen steel wires (diameter 1.5 mm) with steel

## **Flexural Behavior of Concrete Slabs**



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This paper investigates the flexural behavior of engineered cementitious composite (ECC)-concrete hybrid composite beams reinforced with fiber-reinforced polymer (FRP) bars and steel bars. Thirty-two hybrid reinforced composite beams with various ECC height replacement ratios and

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combinations of FRP and steel reinforcements are experimentally tested to failure in flexure.

## **Flexural Behavior of ECC-Concrete Hybrid Composite Beams ...**

(2012) Experimental study on flexural behavior of concrete beams reinforced by steel-fiber reinforced polymer

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composite bars. Journal of Reinforced Plastics and Composites 31(24): 53 - 61741 . Google Scholar | SAGE Journals

## **Flexural capacity and design of hybrid FRP-steel ...**

FLEXURAL BEHAVIOR OF RC BEAMS WITH HYBRID FRP STRENGTHENING N. Sundar School of Civil Engineering,

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SASTRA University, Thanjavur, Tamilnadu, India ... The Hybrid Fibre Reinforced Polymer (HyFRP) strengthened reinforced concrete beams exhibit increased strength and composite action until failure.

## **FLEXURAL BEHAVIOR OF RC BEAMS WITH HYBRID FRP STRENGTHENING**

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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

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signals originating from the damage were deeply studied.

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