

Review of: "Shear performance of polypropylene fiber reinforced high-strength self-compacting concrete beams"

Pouyan Ghabezi¹

1 National University of Ireland, Galway

Potential competing interests: No potential competing interests to declare.

The paper investigates creating self-compacting polypropylene fibrous concrete (PFSCC) with adequate passing, filling, and flow properties, as well as resistance to segregation. It also studies the effect of adding polypropylene fibres on the shear strength of self-compacted reinforced concrete beams.

• The introduction of the manuscript needs to be improved. Add more references about the use of polypropylene fibres in different industries and also how they are made. Here are some papers investigating PP filaments reinforced with fibres. Summarize and discuss them in the introduction section.

Recovery of Particle Reinforced Composite 3D Printing Filament from Recycled Industrial Polypropylene and Glass Fibre Waste

A study on the tensile fracture behavior of polypropylene fiber reinforced concrete based on a microscale model

Experimental study on mechanical properties of material extrusion additive manufactured parts from recycled glass fibrereinforced polypropylene composite

Mechanical properties of polyolefin and polypropylene fibers-reinforced concrete-An experimental study

Short basalt fibre reinforced recycled polypropylene filaments for 3D printing

Performance of concrete with polypropylene fibre and polyvinyl chloride fibre

- The novelty of the work shall be highlighted in the last paragraph of the introduction section.
- In the last paragraph of the introduction section, what is done, how, and what was found should be presented briefly.
- · What is the merit and motivation for studying the specific materials?
- Page 2: "Main materials of concrete (Portland cement, water, aggregates) were taken from local sources." Specify the
 "local sources" (country, city, etc.).
- More details regarding the used materials shall be added in the "Materials" section.
- Separate the results discussion for the section "2.2. Specimens."
- There are no details regarding the used PP.
- The last section shall be "Conclusion."
- Use bullets to highlight the main achievements of the work in the conclusion section.

