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Peer Review

Review of: "The Effects of Polypropylene Wastes on the Compressive Strength of Grade 25 Concrete"

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This paper has a good idea and addresses an important sustainability issue, but the writing and presentation need work in several places. Some sentences are awkwardly phrased, and there are noticeable grammar mistakes throughout that make parts of the paper harder to follow.

At times, the discussion feels a bit shallow, especially when explaining *why* the compressive strength dropped at lower polypropylene contents and then increased at 15%. A deeper technical explanation of the bonding behavior or microstructure would make the findings stronger.

That said, I liked that the study was very straightforward and practical. The experimental setup is clear, with polypropylene waste replacing sand at 5%, 10%, 15%, and 20%, and testing done across multiple curing ages from 7 to 28 days. The finding that 15% replacement gave the optimum 28-day compressive strength of about **26.51 N/mm^2** is a useful takeaway.

I also appreciated that the authors looked at more than just compressive strength by including slump, specific gravity, and water absorption tests, which gives a more complete picture of the material's behavior.

Overall, this is a practical and relevant study with good real-world application in sustainable concrete research, and with stronger technical discussion and better editing, it could be an even stronger paper.

Declarations

Potential competing interests: No potential competing interests to declare.

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