

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

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Potential competing interests: No potential competing interests to declare.

The author has attempted a work by introducing waste polypropylene material into concrete, bringing the process towards waste reduction and management. But the work needs to be improved by providing a detailed comparative analysis without compromising its strength.

1. The author is advised to look for grammatical mistakes and sentence formation throughout the manuscript. For example, in the abstract, line 3 conveys no meaning. Similarly, the first line in the introduction needs to be rephrased.
2. Write about the polypropylene collection as a collection of materials.
3. Provide the composition of pulverised polypropylene.
4. What is the effect of workability of concrete on the use of polypropylene waste material?
5. Explain the pre-treatment procedures adopted for polypropylene waste. If any sort of shredding or pulverizing procedure was followed for the chipping operation, add that too.
6. In the section Materials and Methods, the last line refers to standards; address the standards and methodology procedures in the same section, not in the results and discussion.
7. In R & D, the results obtained from the tests need to be inferred in depth. Do not provide the results as a statement and try to infer the results and correlate them with other parameters like strength.
8. In the slump test, what will be the effect of lowering the w/c ratio in concrete for slump improvement? Similarly, discuss the effect of its compressive strength by reducing the w/c ratio?