

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.

1. In the introduction, the full form of PET is mentioned wrongly. Please change it. Also, whenever an acronym is used, the full form of it must be given when addressing the word for the first time. For instance, for LDPE and HDPE, the expansion was provided at the end of the introduction. Please change it appropriately.
2. The introduction needs to be updated, focusing on the novelty of the work. At the end of the introduction, a paragraph can be included stating the objective and reasons for carrying out the study.
3. The chapter "Materials and Methods" needs to be updated. State sentences about all the materials used, and also the physical properties of the materials can be discussed here. Also, the experimental procedure adopted needs to be discussed clearly.
4. I suggest adding photographs of the concrete casting and testing.
5. The sieve analysis test shows only the graph. An inference can be made by comparing the sand and PP.
6. The specific gravity of the PP is found to be 0.92, so the material will tend to float in water. Any measures to be taken to solve this can be discussed.
7. The reason for the increase in compressive strength is not found satisfactory. The author needs to go through more papers on utilizing PP in concrete and come to a conclusion.
8. The water absorption test comes under the durability of concrete. If any other tests were carried out to study the durability of the concrete, I recommend adding those results.
9. Overall, the entire manuscript needs to be restructured. For instance, while discussing the results, first the physical and chemical properties of raw materials need to be discussed, then the fresh concrete properties (slump), and at last the hardened concrete properties can be discussed. Note: the contents do not give continuity while reading.
10. Lastly, the entire manuscript needs to be checked for grammar.