

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

Ehsan Teymouri¹

¹ Curtin University of Technology, Sarawak Campus

Potential competing interests: No potential competing interests to declare.

Unfortunately, the authors did not address any of the comments below for the first review. So, I highly encourage them to improve their paper quality by addressing the following comments:

General Comments:

- The paper still needs to be double-checked for grammatical mistakes and written English by a native specialist. There are several instances where the language could be clearer and more precise.

Materials and Methods:

The materials and methods section still requires significant improvement. All experiments mentioned should be referenced properly. This is essential for the reproducibility of the study.

It is recommended to provide some pictures of the experiments conducted. Visual aids can enhance the clarity and comprehensibility of the methods described.

This section should include subsections for better organization and readability. Suggested subsections include:

- Mixture design (with a table presenting the content of materials)
- Compressive strength
- Slump
- Water absorption

The authors mentioned casting 60 101010 concrete samples. However, there is no explanation of the rationale behind this number. How did you determine that 60 samples should be cast? Was any software used for designing the mixtures? What was the replication for each mix? This information is critical for understanding the experimental design and ensuring the validity of the results.

Results and Discussion:

1. Sieve analysis test: A brief explanation about Figure 1 should be provided to enhance clarity. Additionally, the results of the sieve test for the coarse aggregate are missing in Figure 1, despite being mentioned in the text. This discrepancy needs to be addressed.
2. The compressive strength section requires further development and a more detailed explanation. A separate figure for compressive strength at different ages would be beneficial for better visualization and understanding of the results.

These comments are meant to guide the authors in addressing the critical issues in their paper and improving its overall quality.