

# Review of: "Analytical Study and Amelioration of Plastic Pavement Material Quality"

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**Potential competing interests:** No potential competing interests to declare.

The manuscript aims to evaluate the varying effect of plastic concentration in pavements using two main types of plastics: polypropylene (PP) and polyethylene terephthalate (PET), and also the effect of varying the combination of these two plastics for the production of a single pavement. There are the following comments:

1. It is preferred to provide an introduction about using waste plastic in construction materials such as concrete. For example, you can see this paper titled (The behavior of sustainable self-compacting concrete reinforced with low-density waste Polyethylene fiber), and also you can see this paper titled (Effect of egg shell ash and strap plastic waste on properties of high strength sustainable self-compacting concrete).
2. It is required to mention the dimensions of samples that were used for compression strength, density, porosity, and water absorption tests.
3. It is required to mention the reference of the equation that was used for the porosity test.
4. Check the equations for finding flexural strength. They seem wrong.
5. Why did you use the age of your samples in hours in figure 6?
6. You mentioned in the text that figure 8 shows the results of two ages of samples (2 and 7) days, while figure 8 shows the results of one age of samples (7 days). Check this situation and correct it.
7. You mentioned on page 9 this sentence (The results obtained from polypropylene (PP) samples with formulations of 15%, 20%, 25%, and 30% after 2 and 7 days are outlined in Figure 9.). Check the number of the figure; it seems wrong.
8. You wrote the letter k in kN as a capital letter in some places of your manuscript, where it should be a small letter. Correct that.
9. Why did you write other reference and references? It should be just references.
10. Unify the format of writing for the references