

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

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

In this manuscript, an experimental study has been conducted using waste plastics in combination with coarse sand for pavement construction. In this study, evidence of the material's effectiveness is provided through porosity, water absorption, compressive strength, and flexural strength tests. Laboratory testing and comparative analysis are presented, supporting the potential for widespread adoption of waste plastic in infrastructure projects in Cameroon. The utilization of waste plastics in combination with coarse sand for pavement construction appears to be both feasible and technically viable.

This manuscript has the following shortcomings:

- i. The title of the manuscript should be changed from "Analytical Study and Amelioration of Plastic Pavement Material Quality" to "Experimental Study and Amelioration of Plastic Pavement Material Quality."
- ii. The formula for the three-point bending test is not correct.
- iii. Reasons for the variation in results of porosity, water absorption, compressive strength, and flexural strength tests should be mentioned.
- iv. Different traffic conditions in terms of sustaining loads of 22.1 kN to 49 kN have been mentioned for the use of prepared samples. A suitable reference should be quoted for the traffic condition-load relationship.
- v. Durability of the prepared paving blocks should be tested as per Cameroonian weather.
- vi. Continuity of flow of language is also missing at many places; it should be checked and accordingly revised.

In view of the above observations, the manuscript is not up to a satisfactory level; hence, it needs revision before publication.