

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.

English language needs to be improved. Statements are not very clear, and it is not possible to understand what the author is trying to say. Example: This was due to the increased problem of environmental pollution, which may lead to flooding that these wastes are causing in our environment. The research used experimental methods to carry out the study.

This journal paper gives the experimental results of very basic tests conducted on concrete with PP replacement. Even flexural strength and split tensile strength tests are not carried out.

Discussion for Fig. 1 - particle size distribution curve needs to be given.

Table 2 - reasons for decrease and then increase of water absorption need to be explained.

Fig. 2 - just shows the decreasing, increasing, and then again decreasing trend of compressive strength of concrete with PP replacement. Numerical values of compressive strength of concrete are not given. The reason specified for the decreasing and increasing compressive strength is not satisfactory.

Only 7 days and 28 days curing strength was sufficient to be shown. No need for showing 14 days and 28 days curing strength.

Also, for 15% replacement, 14 days curing strength is shown to be lesser than 7 days curing strength.

For 20% replacement, 14 days curing strength is shown to be greater than 21 days and 28 days curing strength.

Conclusion - not satisfactory as only test results are mentioned. The optimum percentage of PP to be added to concrete for improving the strength or workability of concrete is not mentioned in the conclusion.

References - Numbering should be done; avoid bullets unless specified in the journal format.