

Use of Waste Plastic In Paving Blocks

Mr.M.V. Khade¹, Mrs.T.D.Bansode², Mrs. R.M. Chandane³, Mr.T.P. Dhaware⁴, Mr.K.S.Waghmare⁵

^{1, 2, 3, 4, 5} Dept of Civil

^{1, 2, 3, 4, 5} Zeal Polytechnic Institute Name,S. No. 39, Dhayari-NArhe Road, Narhe, Pune..

Abstract- Plastic is a non-bio-degradable substance which takes thousands of years to decompose that creates land as well as water pollution to the environment. The quantity of plastic waste in Municipal Solid Waste (MSW) is expanding rapidly. It is estimated that the rate of usage is double for every 10 years. Plastics are rapidly growing segment of the municipal solid waste. Disposal of waste materials including waste plastic bags has become a serious problem. Amount of waste plastic bags being accumulated in 21st century has created big challenges for their disposal.

Keywords- The Regularly Use Of Project In Word Is Plastic, Waste, Material, Blocks, Concrete etc.

I. INTRODUCTION

Plastic is one of the daily increasing useful as well as a hazardous material. At the time of need, plastic is found to be very useful but after its use, it is simply thrown away, creating all kinds of hazards. Plastic is non-biodegradable that remains as a hazardous material for more than centuries. The waste plastic will be large in household time. In many countries the compositions of waste is different, that it is affected by the socioeconomic characters, waste management programs and consumption patterns, but generally the level of plastic in the waste composition is high.

In Introduction you can mention the introduction about your research

II. IDENTIFY, RESEARCH AND COLLECT IDEA

In this research work, waste PET plastics found on KNUST campus were collected, washed and shredded into flakes, heated and then used to replace cement completely while some were shredded into pieces and were used to replace quarry dust partially. In order to complement this research and to gain a comprehensive perspective on the growing volume of research on polymer modified pavement blocks, established fundamental and empirical laboratory tests such as compressive strength, water absorption and effect of acids on the mechanical properties

III. WRITE DOWN YOUR STUDIES AND FINDINGS

To decrease the cost of paving blocks, to make it economical.

- To replace cement and mortar by plastic.
- To decrease the setting time of paving blocks compared to the concrete paving blocks.
- Avoid the process of curing.
- To decrease the weight of paving blocks and make it light in weight.
- As plastic is water resistant so as the paving blocks will also be water resistant.
- To check the strength of plastic paving blocks and ordinary paving blocks.
- To compare the cost between plastic paving blocks and ordinary paving blocks.
- By utilising the waste plastic safe guarding the environment.
- To gift a cost efficient/economical construction material to all.

IV. GET PEER REVIEWED

In this chapter, the research work concern to the various application and methods used for making plastic paver blocks. In this experimentation, paver blocks made with plastic with fine aggregate is discussed. This chapter gives a comprehensive review of the work carried out by various researchers in the field of using plastic in paver blocks. literature review establishes familiarity with and understanding of current research in a particular field before carrying out a new investigation. cases there could be chances where your paper receives number of critical remarks. In that cases don't get disheartened and try to improvise the maximum.

V. CONCLUSION

From the above report, the analysis concluded that the waste plastics can be used in the pavement block production. This modified pavement block is applicable in the construction of rigid pavements. The block consists of quarry dust, fine aggregate, plastics out of which the fine aggregate and quarry dust percentage is 60 to 70 and from the above observation it is computed to use 20% recycled plastics, which does not affect the properties of block.

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