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UTILIZATION OF MESHED GLASS AS A FINE AGGREGATE IN CONCRETE

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Abstract

Glass is generally utilized as part of our lives through fabricated items, for example; sheet glass, containers, dish sets and vacuum tubing. Glass reuse has been an established practice throughout the industries. The utilization of reused glass is instrumental in energy saving on a significant scale. The construction industry is therefore, no exception. There have been previous attempts at exploring the nature and use of waste glass in construction, with various approaches, theories, analysis and tests put forward. This paper presents a study on the utilization of waste glass as halfway substitution of fine aggregates in concrete. Fine totals were replaced by waste glass powder as 5%,10%,15%,20%,25% by weight for M30 blend. The concrete examples were tried for compressive quality, part elasticity and flexural quality after 28days. The Cube molds of measurement 150x 150 x150mm, split cylinder of width 150mm and height 300mm and light emissions 500 x100 x100mm have been utilized as part of this paper

Author Keywords

Meshed glass, Compressive Strength, Flexural strength, split tensile strength etc.

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References (5)

1. S.P. Gautam Vikas Srivastava and V.C. Agarwal studied the use of glass wastes as fine aggregate in concrete, Youth Education and Research Trust (YERT)

(2012) *JOURNAL OF ACADEMIA AND INDUSTRIAL RESEARCH*, Volume 1, Issue 6,

2. Vikas Srivastava, S. P. Gautam, V. C. Agarwal, P. K. Mehta studied the glass waste as a coarse aggregate in concrete

(2013) *Journal of Environmental Nanotechnology*, Volume 3, Issue 1, Page No 67-71,
DOI: doi.org/10.13074/jent.2013.12.132059

3. N. Tamanna N. Mohamed Sutan and D. T. C. Lee
Studied the utilization of glass wastes as fine aggregate in concrete

(2013) *Energy and Environment*,
DOI: doi.org/10.3850/978-981-07-6059-5_090

4. Sadoon Abdallah, Mizi Fan
Characteristics of concrete with waste glass as fine aggregate replacement

(2014) *International Journal of Engineering and Technical Research*, Volume 2, Issue 6,

5. Dragica Jevtic, Dimitrije Zakic, Aleksandar Savic
Achieving Sustainability of Concrete by Recycling of Solid Waste Materials

(2012) *Mechanical Testing and Diagnosis*, Page No 22-39,

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