

# **EFFECT OF CRUMB RUBBER ON MECHANICAL PROPERTIES OF TERNARY BLENDED CONCRETE**

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## **ABSTRACT**

Cement Concrete is most widely used material for various constructions. Increased use of various ingredients of concrete for construction works has lead to the immense scarcity of natural materials like sand, stone etc. Added to this, in the recent past, growing environmental problem due to excess production of solid waste materials like fly ash and silica fume has tempted many researchers to try these materials as concrete ingredients. Also, the disposal of used tyres has become a tough task. Therefore, in this paper, it is proposed to investigate the effect of crumb rubber on strength characteristics of Ordinary Portland Cement (OPC) Concrete and Ternary Blended Concrete (TBC) of M40 grade with fly ash and silica fume as powders along with cement. The mechanical properties of TBC in fresh and hardened state are studied and compared with that of OPC Concrete.

**KEYWORDS:** Crumb Rubber, Fly Ash, Silica Fume, Ternary Blended Concrete, Mechanical Properties, Impact Strength