

# Experimental Analysis on Green Concrete

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**Abstract:** Concrete makes up about 5% of all global CO<sub>2</sub> emissions and is the second most consumed material after water. On average, 927g of carbon dioxide is produced for every 1000 kg of cement. One of the most effective materials that has a significant impact on environment. We are completely substituting waste materials like fly ash and silica fume for cement in order to lessen the cement's negative environmental effects. The use of two chemicals (chem1 and chem2) that will react with fly ash to create cement-like materials and cementations properties is called a polymerization reaction. We will research how different chemical ratios affect concrete's strength and durability and get similar conclusions. Following an interpretation of the findings and conclusions by casting and testing concrete, we will state the application of the test results for both the physical and chemical properties of the materials.

**Keywords:** Concrete

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