

# Compressive Strength of Green Building Concrete

Jayant Supe and Mohan Kumar Gupta (India)

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## SUMMARY

Green Building concrete is recognition and interdependence of eco-friendly building material to use minimum energy, water, and other natural resources. Why Green building concept of constructing homes and buildings is the need of today? Because it is the approach to save energy in mining building materials and keep them reserved for future generations, by finding new resources? In the new world of sustainable building, information about the strength, durability, and indestructible nature of concrete as a resourceful building material is emerging. Amid the teardown-and-replace mentality still pervasive in the world today, concrete stands out defiantly. Coarse aggregate obtained from ruined structures produce concrete with an alternative green building material, possessing the same thermal qualities, design flexibility, and permanence. Fortunately, a paradigm shift is taking place in attitudes about resource conservation and sustainability. More builders and homeowners are now embracing green building, and concrete is emerging as a champion rather than a rebel. Technology is developing fast to find out how to use concrete to build environmentally responsible homes without compromising beauty, comfort, or economy. It is observed that the construction and operation of buildings accounts for approximately 40 per cent of all emissions of greenhouse gases. The coarse aggregate from ruined buildings in making concrete, could drastically reduce, and ultimately even eliminate, the carbon footprint of new building construction. The main aim of this research paper is to utilize RCA in making green building concrete and conclude whether the replacement of C.A. & F.A. is inappropriate or acceptable. **KEY WORDS-** life cycle assessment, Green building concrete, renewable energy of concrete, RCA (Recyclable Aggregate)