

Green Concrete - A Sustainable Solution for the Future of Construction

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Abstract: *Green concrete represents a transformative advancement in the construction industry, offering a sustainable alternative to conventional concrete. As the construction industry contributes significantly to environmental degradation, primarily through the extensive use of cement and high energy consumption, green concrete presents an eco-friendly solution that reduces environmental impact. This paper explores the composition, benefits, and challenges of green concrete, emphasizing its potential in addressing pressing environmental concerns. We will discuss the use of waste materials, reduced carbon emissions, and energy-efficient production processes in green concrete. A review of the current methodologies and advancements in its production is followed by a discussion on its potential applications. The paper concludes by highlighting the future outlook of green concrete in sustainable construction practices.*

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