

Nano Concrete

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Abstract: *Nano concrete, an revolutionary form of concrete incorporating nanotechnology, is rapidly gaining interest for its ability to beautify the strength, sturdiness, and sustainability of traditional concrete. The integration of nanomaterials which includes carbon nanotubes, nano- silica, nano- alumina, and different nanoparticles into concrete mix designs leads to widespread improvements inside the concrete's mechanical properties. This paper discusses the various types of nanoparticles utilized in concrete, their mechanisms of action, and their effect on the performance of nano concrete. Additionally, the paper discusses the challenges in scaling up nano concrete manufacturing, capability applications, and design guidelines for studies.*

Keywords: Nano concrete.

