J Material Sci Eng 2021, Volume 10

A Review on Effects of Nanomaterials on Properties of Concrete

P.Asha
St.Peter's Institute of Higher Education and Research, India

Nanotechnology deals with particles having at least one dimension between approximately 1 and 100 nm. Recently, nanotechnology has been applied in the production of concrete to reduce permeability, which is essential in extending service life (He and Shi, 2008). In addition, the Nano modification can result in improvements in strength, shrinkage, ductility, permeability and impact resistance (Birgisson, 2006). One of the advancements made by the study of concrete at the Nano scale is that particle packing in concrete can be improved by using nanomaterial's which leads to a dignifying of the micro and nanostructure resulting in improved mechanical properties. This paper deals with the effect of nanomaterials on strength and durability aspects of concrete.