

Properties of nanomaterial's in concrete

This paper discussed on the nano materials in concrete. Nowadays, the application of nano materials has received numerous attentions to enhance the conventional concrete properties. Eventually, the introduction of nano materials in concrete is to increase its strength and durability. Nano material is defined as material that contains particle size which less than 200 nm. For the purpose of concrete study, the nano materials must be at least 500 nm in size. The addition of ultrafine nano material will help to reduce the cement content by partially replacing cement on weight basis to improve the binding effect. The ultrafine particles of nano material will also help reduce the formation of micro pores by acting as a filler agent, producing a very dense concrete and automatically reduce the growth of micro pores in the structures. Moreover, this paper aims the analytical and structural study of nano materials in concrete.