

*Summary*

**CONCRETE ADMIXTURES – SPECIFICATION**

**IS 9103 : 1999**

Admixtures are materials added to the concrete before or during its mixing for modifying one or more properties of concrete in the plastic or hardened state. The performance of concrete admixtures including superplasticizers depend upon both the admixtures and the cement and their compatibility, in addition to the concrete mix proportions and the environmental conditions in the field.

This standard covers the chemical and air-entraining admixtures including superplasticizers, solid or liquid or emulsion.

It is difficult to quantitatively evaluate the behaviour of the concrete under various possible circumstances, therefore, performance of an admixture is evaluated by comparing the properties of concrete with the admixture under test with those of concrete without any admixture or with a reference admixture. The conformity to this standard is assessed by comparison of important properties like setting time, compressive strength, flexural strength, bleeding percent, loss of workability, etc.