

CONCRETE

1.1 INTRODUCTION

Concrete is a composite man-made material, is the most widely used as a building material in the construction industry. It consists of a rationally chosen mixture of binding material such as lime or cement, well graded fine and coarse aggregates, water and admixtures (to produce concrete with special properties). Freshly mixed concrete is known as wet or green concrete whereas after setting and hardening it is known as set or hardened concrete.

Most of the ancient structures and historical buildings had been constructed with lime concrete. With the advent of cement, the use of lime concrete has been confined to making bases for concrete foundation and roof terracing. The major factors responsible for wide usage of cement-concrete are mould-ability, early hardening, high early compressive strength, development of desired properties with admixtures to be used in adverse situations, suitability for gunning, pump-ability and durability. Most of the chapter is devoted to cement concrete because of its versatility.

1.2 CLASSIFICATION

- Based on cementing material: Concretes are classified as lime concrete, gypsum concrete and cement concrete.
- Based on perspective specifications: The cement concrete is specified by proportions of different ingredients, e.g., 1:2:4 concrete, Class C 15, C20, ... etc. These proportions are known as nominal mix.
- Based on performance oriented specifications: When the concrete properties such as strength, water-cement ratio, compaction factor, slump, etc. are specified, the concrete may be classified as designed-mix concrete. For a design mix concrete the mix is designed to produce the grade of concrete having the required workability and a characteristic strength not less than the appropriate values.
- Based on Grade of Cement concrete: Depending upon the strength (N/mm^2) of concrete cubes (150 mm side) at 28 days.
- Base on Bulk Density: On the basis of density, concrete is classified as super heavy (over 2500 kg/m^3), dense (1800-2500 kg/m^3), light weight (500-1800 kg/m^3) and extra light weight concrete (below 500 kg/m^3).
- Based on place of casting: When concrete is made and placed in position at the site it is known as in-situ concrete and when used as a material for making prefabricated units in a factory is known as precast concrete.

1.3 PRODUCTION

A good quality concrete is essentially a homogeneous mixture of cement, coarse and fine aggregates and water which consolidates into a hard mass due to chemical action between the cement and water. Each of the four constituents has a specific function. The coarser aggregates act as a filler. The fine aggregate fills up the voids between the paste and the coarse aggregate. The cement in conjunction with water acts as a binder. The mobility of the mixture is aided by the cement paste, fines and nowadays, increasingly by the use of admixtures.

Most of the properties of the hardened concrete depend on the care exercised at every stage of the manufacture of concrete. A rational proportioning of the ingredients of concrete is the essence of the mix design. However, it may not guarantee of having achieved the objective of the quality of the quality of

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