

ADVANCED CONCRETE TECHNOLOGY

UNIT – 1

CEMENT

- Cement, any material that hardens and becomes strongly adhesive after application.
- Manufactured substance consisting of gypsum plaster, or Portland cement
- Portland cement hardens and adheres after being mixed with water.

HISTORY OF CEMENT:

- The term “Portland cement” was first used in 1824 by Joseph Aspdin, a British cement-maker, because of the resemblance between concrete made from his cement and Portland stone, which was commonly used in building in Britain.
- The first modern Portland cement, made from lime and clay materials heated until they formed clinkers was produced by Isaac Charles Johnson in Britain in 1845.
- At that time cements were usually made in upright kilns where the raw materials were spread between layers of coke, which was then burnt.
- The first rotary kilns were introduced about 1880. Portland cement is now almost universally used for structural concrete.

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Murari Lal Gambhir



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Technology: New Trends, Industrial Applications A. Aguado, R. Gettu, S. Shah, 1994-11-10 This book forms the Proceedings of an RILEM workshop in Barcelona in November 1994 It is structured as a series of presentations reviews by some of the leading international researchers and technical experts of the concrete world Coverage ranges from developments in materials science through performance and behaviour of concrete to manufacturing

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