

Silica :-

- It is also responsible for strength of the cement.
- If it is excess in cement it ⁱⁿdecreases strength of the cement but also increases its setting time.

Alumina :-

- It imparts quick setting property to the cement.
- It act as a flux and helps in reducing the clinkering temperature.
- If it is in excess it weakens the cement.

Calcium Sulphate :-

- It is generally added in cement in the form of gypsum.
- It helps in increasing the initial setting time of the cement.

Iron Oxide :-

- It imparts strength & hardness, colour to the cement.

Magnesia :-

- It is also responsible for strength, hardness & colour of the cement.
- If it is excess it makes the cement unsound.

Sulphur :-

- Presence of sulphur in cement is also responsible for volume changes in it. There by also leads the unsoundness of the cement.

Alkali :-

- Presence of alkali, cement leads to development of strains over the construction in which it is used.

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Sustainable Construction and Building Materials Bibhuti Bhusan Das, Narayanan Neithalath, 2018-12-30 This book presents select proceedings of the International Conference on Sustainable Construction and Building Materials ICSCBM 2018 and examines a range of durable energy efficient and next generation construction and building materials produced from industrial wastes and byproducts The topics covered include alternative eco friendly construction and building materials next generation concretes energy efficiency in construction and sustainability in construction project management The book also discusses various properties and performance attributes of modern age concretes including their durability workability and carbon footprint As such it offers a valuable reference for beginners researchers and professionals interested in sustainable construction and allied fields

Recent Advances in Building Materials and Technologies Sreevalsa Kolathayar, K. S. Sreekeshava, N. Vinod Chandra Menon, 2024-05-17 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India The topics covered in this book are sustainable materials with low embodied carbon such as recycled steel reclaimed wood and alternative binders like geopolymers concrete renewable materials like bamboo and straw energy efficient technologies including solar panels energy efficient insulation and smart building systems This book serves as a resource material for researchers and industry professionals interested in developing solutions for sustainable and resilient infrastructure that aims for communities with net zero targets

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