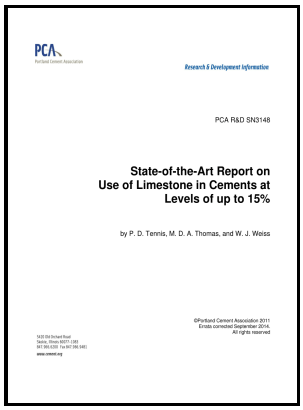
Performance of limestone-filled cements - proceedings of a seminar of the BRE/BCA/Cement Industry Working Party, held at the Building Research Establishment, Garston, on 28 November 1989.

Building Research Establishment - Influence of various amounts of limestone powder on performance of Portland limestone cement concretes



Description: -
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German poetry -- 18th century
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Building Research Establishment report -- 245Performance of limestone-filled cements - proceedings of a seminar of the BRE/BCA/Cement Industry Working Party, held at the Building Research Establishment, Garston, on 28 November 1989.
Notes: Includes bibliographical references.
This edition was published in 1993

Filesize: 69.55 MB

Tags: #Limestone

Limestone

The lowest sulfate-expansion occurred at the specimens with a limestone addition of 10%. They can be inert or have slightly hydraulic, latent hydraulic or pozzolanic properties.

Influence of various amounts of limestone powder on performance of Portland limestone cement concretes

It concludes that a relationship exists between the strength class of the cement, the cement content and the strength of the concrete. Whilst the quality of the limestone filler was found to influence the performance of the cement in concrete, the most significant effect was observed to be with fillers which affected the water demand of the cement.

Sustainable Performance of Limestone Cement

It observes that limestone-filled cements can be produced to strength classes 32. The paper describes the effect of various amounts of limestone on compressive strength, water penetration, sorptivity, electrical resistivity and rapid chloride permeability on concretes produced by using a combination of PC and limestone at 28, 90 and 180 days.

PERFORMANCE OF LIMESTONE

The results show that the addition of limestone reduces the initial and final setting time, as well as total porosity, whereas the free lime and combined water increase with limestone content.

Influence of various amounts of limestone powder on performance of Portland limestone cement concretes

Results showed that the compressive strengths of the mortar were reduced by the limestone addition. Fillers are normally either limestone or any inert material such as sand.

Limestone

Moreover, with additions of 10% or less, the reductions in strength were likely recovered by the addition of fly ash.

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