

Investigation into delayed ettringite formation.

Queen Mary and Westfield College - FAA probes clusters of mysterious drones flying over Colorado



Description: -

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Hardening of concrete with a planned delayed ettringite formation

We investigated the removal mechanism of boron from wastewater by calcinated ettringite, a concrete sludge, and compared the advantage of this method to coprecipitation with ettringite. Workshop on Performance-based Specifications for Concrete: proceedings, p. The b presents the evolution graph of temperature versus time, referring to the pile cap of foundation 2.

Diagnosing delayed ettringite formation in concrete structures (Journal Article)

This may result in greater susceptibility of the X cement to attack by sulfates due to DEF.

Hardening of concrete with a planned delayed ettringite formation

The linear rate post-peak losses in the core was approximately 0.

Significance of Delayed Ettringite Formation and Damage Mechanisms

The amount of boron remaining in solution decreased slightly from an initial concentration of 2. As discussed in the section *Risk Identification*, a sulfate ion migration may occur due to a fluctuation in the ground water table, flow or lateral migration from a sulfate-bearing seam due to gravity potential, or migration from subsurface layers due to capillary suction gradients. The Duggan method establishes the dimensions of the concrete core: 25 mm in diameter and 50±5 mm long.

Significance of Delayed Ettringite Formation and Damage Mechanisms

The forensic investigation included scanning electron microscopy with energy-dispersive X-ray analysis and expansion testing of cores extracted from the structure. Since sulfate distribution can be highly variable, it is not uncommon to select more than one construction technique or to use different stabilizers along the alignment of the pavement.

Risk analysis of the delayed ettringite formation in pile caps foundation in the metropolitan region of Recife

Concrete swelling may result in bridge partial failure, dams with structural cracks and misaligned turbine shafts, and locked slice gates. The finality of this guide is providing recommendations of preventive measures for confection of concrete elements in order to mitigate the risks associated with DEF, over the service life of the structure. The first case assigned to the DEF as main factor cause of damage happened in 1987, in Finland, affecting concrete precast sleepers that had been subjected to a improper heat treatment and exposed to moisture.

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