

Cold joints that occur in concrete significantly affect the performance and durability, so that further analysis and research needs to be done on the strength of concrete due to the cold...

Cold joints can be avoided if the construction is planned properly. It shall be done with proper resource allocation and with the correct evaluation of strengths and weaknesses. The following can be ...

The American Concrete Institute (ACI) is a leading authority and resource worldwide for the development and distribution of consensus-based standards, technical resources, educational ...

The study aims to measure the reduction in compressive and flexural strength of concrete specimens containing cold joints, evaluate the effect of cold joint orientation (vertical, horizontal, or ...

The main consequence of a cold joint is the loss of monolithic strength, which compromises the structural integrity of the element. Concrete placed continuously acts as a single ...

Managing the concrete delivery rhythm is perhaps the single most important factor in preventing cold joints. The rate of concrete delivery must be precisely matched to the rate of ...

Understanding what cold joints are, their effects, how to prevent them, and how to repair them is essential for ensuring the quality and integrity of concrete structures.

The longer the period between the placement of the adjacent layers, the higher the risks of a cold joint. A common sign of a cold joint is a pouring line with different colour tones (refer to the picture below).

It's important for construction professionals to understand what causes cold joints and how to manage them effectively. This article takes a closer look at the key issues related to cold joint concrete. We'll ...

Discover the essential guide to understanding cold joints in concrete footings and their impact on structural integrity. This article explores the causes, consequences, and best practices for preventing ...

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