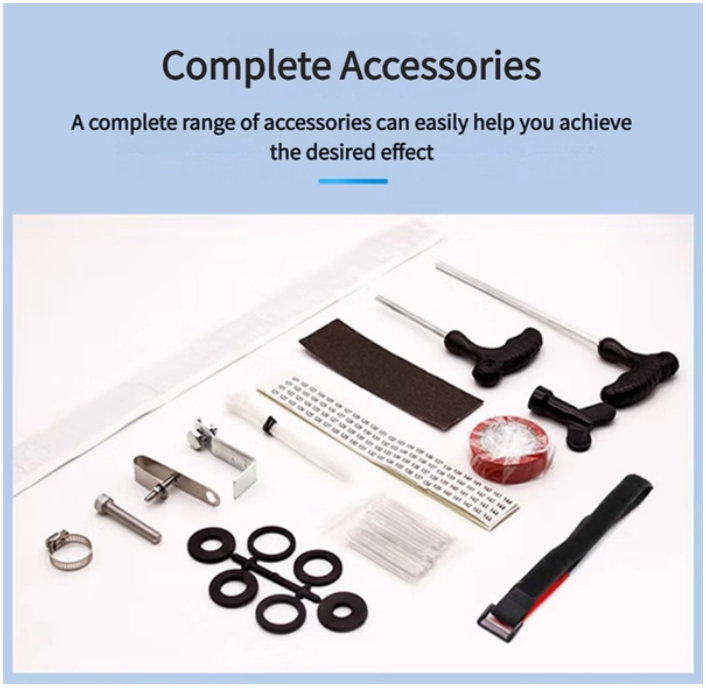
Comparison of Low Loss and Better Performance of Cold Joints



Overview

This review examined the effects of construction joints, particularly cold joints, on reinforced concrete beams' structural performance and integrity. Cold joints, which form when concrete is poured in stages rather than continuously, are often seen as weaknesses that can compromise the strength. This study investigated the effects of cold joints on the strength and some durability properties of concrete. Botía-Díaz* * Pontificia Universidad Javeriana, Bogotá.

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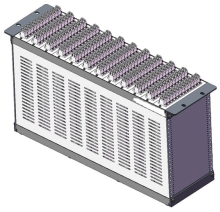

In this paper, the problem of the generation of cold joints is approached from two complementary perspectives.

It was found that strength losses due to drying–wetting and freezing–thawing of specimens with cold joints were higher than those of the specimens without cold joints. Strength losses of ...

In this paper, the problem of the generation of cold joints is approached from two complementary perspectives.

This paper investigates the effect of pouring interval on the fracture performance and fracture characteristics of concrete beam with cold joints through three-point bending experiments ...

To reveal their impacts on tunnel service performance, indoor tests and theoretical analysis are used to assess the mechanical properties of concrete with cold joints, including elastic ...

The review explored how cold joints impacted key properties like flexural strength, ductility, and energy dissipation capacity, drawing on numerous experimental studies.

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A smooth cold joint of concrete is an untreated weak plane caused by an interruption of the casting process, which can significantly affect the performance of a structural system. In this paper, the ...

Concrete specimens with and without cold joints were subjected to drying–wetting, freezing–thawing and high temperatures (300, 600 and 900 °C) and subsequently tested for weight ...

The comparison of the experimental results, numerical analysis results and the results acquired by the analytical method led to the conclusion that the proposed analytical method is ...

The aim of the present study is to determine the loss in the flexural strength capacity of a reinforced concrete (RC) beam due to the presence of cold joint under two conditions: (i) different ...

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