

Several Models of Cold Joints



Overview

This study aims to investigate the mechanical properties of cold joints, which typically exhibit reduced strength compared to surrounding materials, thereby raising concerns about their failure under stress concentrations. Authors: achieve the best HTML results from your LaTeX submissions by following these best practices. Cold joints in extruded concrete structures form once the exposed surface of a deposited filament dries prematurely and gets sequentially covered by a layer of fresh concrete. In this regard, cold joints, which result from delays between the placement of old and new concrete, are commonly found at interfaces in Reinforced Concrete. Question: Difference between a contraction joint, isolation joint, expansion joint, construction joint, an. Botía-Díaz* * Pontificia Universidad Javeriana, Bogotá.

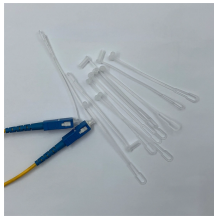
Several Models of Cold Joints



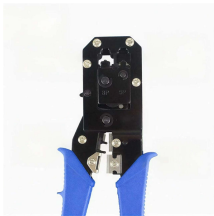
Many factors concurrently affect cold joint formation, yet a suitable tool for their categorization is missing. Here, we present a computational model that simulates the drying kinetics at the exposed structural ...



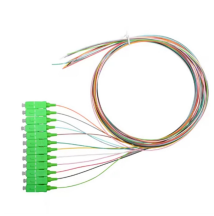
Given the adaptability of the CZM in simulating concrete cold joint structures, this paper combines CZM with a meso-modeling approach to develop a 3D four-phase RFC model that ...



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 ...



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 ...



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



This study introduces a mechanics-based numerical model to characterize the behavior of cold joints in reinforced concrete members subjected to monotonic loading.



To resolve the issue of cold joints forming in concrete during the construction process, this study has developed a control system with visual prevention capabilities.



Question: When should saw cuts be made on a concrete slab?



Abstract This study introduces a mechanics-based numerical model to characterize the behavior of cold joints in reinforced concrete members subjected to monotonic loading.



Drawing upon existing literature, including numerical simulations and experimental testing, this study presents a robust simplified numerical simulation modeling framework for predicting the behavior of ...

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