

Advantages and disadvantages of cold-joint models

To ensure the integrity of structures with cold joints, it is essential to evaluate the response of cold joints under varying stress profiles and their interaction with the internal strain and stresses within the ...

Knowledge of concrete interface performance is insufficient to this day. Most of the existing analytical methods are only suitable for determining the highest interface shear resistance ...

Cold joints create critical flaws in concrete. Learn how these weaknesses develop, their structural impact, and practical methods for prevention and repair.

A cold joint in concrete may appear minor at the time of construction; however, long-term cold joints can have serious long-term effects. They undermine the structural integrity of the system, ...

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 ...

Discover the truth about concrete cold joints: their effects on structural integrity, common issues, and best practices for prevention and repair.

PDF | This study investigated the effects of cold joints on the strength and some durability properties of concrete.

Cold joints, formed due to interruptions in the concrete placement process, significantly impact the mechanical behavior of concrete structures. This study comprehensively examines the ...

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

Horizontal cold joints maintain compressive strength, while diagonal and vertical joints exhibit significant strength loss. A constitutive model simulates concrete's time-dependent behavior under load, crucial ...

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