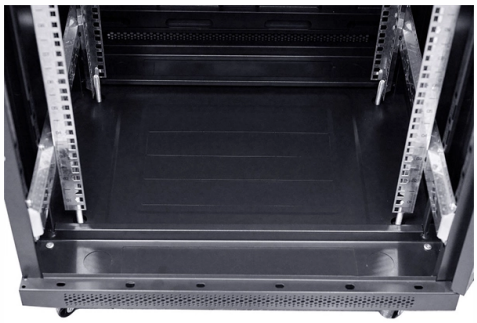
VPC cold joint



Overview

cold joints Topic Date: 5/31/2025 Glass Fiber-Reinforced Polymer Bars as Shear-Friction Reinforcement for Concrete Cold Joints Publication: Structural Jour.

Key Takeaways

A VPC cold joint can refer to either a networking cold start in a Virtual Private Cloud or a structural cold joint in concrete, depending on context.

VPC Cold Start in Cloud Computing

In cloud computing, particularly with AWS Lambda, a VPC cold start occurs when a Lambda function is invoked but no pre-existing execution environment is available. The system must create a new microVM, allocate resources, download the function code, start the runtime, and perform network setup to connect to resources inside the customer's Virtual Private Cloud (VPC). This additional network setup, including creating Geneve tunnels and configuring DHCP, historically made VPC cold starts slower than non-VPC cold starts, though optimizations have reduced latency significantly.

VP

C cold starts can impact application responsiveness, especially for latency-sensitive workloads.



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Cold Joint in Concrete

In construction, a cold joint is a point in a concrete structure where fresh concrete is poured against a layer that has partially hardened. This occurs when there is a delay between successive pours, preventing proper bonding between layers. Cold joints can reduce structural integrity, increase water permeability, and create weak points in slabs, beams, or walls.

Common causes include delayed pouring, inadequate surface preparation, improper consolidation, or variations in mix properties. Signs of a cold joint include visible seams or color differences between layers.

Prevention and Mitigation

For VP

C cold starts: Use provisioned concurrency, keep execution environments warm, or optimize network setup to reduce latency. For concrete cold joints: Ensure continuous pouring, roughen and clean the surface before adding new concrete, use bonding agents, and consider retarding admixtures to extend workable time. Understanding the context is crucial: in cloud computing, a VPC cold joint affects performance, while in construction, a cold joint affects structural integrity.

Both require proactive strategies to minimize negative impacts.

Article Content

cold joints Topic

Date: 5/31/2025 Glass Fiber-Reinforced Polymer Bars as Shear-Friction Reinforcement for Concrete Cold Joints Publication: Structural Journal Date: 11/1/2024 Shear Capacity of Cold Joints

What is a Cold Joint in Concrete? (And How to Fix them!)

What is a Cold Joint in Concrete? Cold joints occur when a fresh concrete batch is poured against a partially hardened existing layer. As you know, concrete

The Critical Threat of Cold Joints in Concrete Columns: Ensuring ...

A cold joint is an unplanned discontinuity that occurs when a planned continuous pour is interrupted and the concrete on the lower lift is allowed to achieve initial set before the next lift is placed.

An experimental and numerical study on the effects of cold joint ...

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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

Cold Joints | Concrete Society

Cold joints, unlike cracks that form in hardened concrete through tensile restraint, are not gaps in the concrete but merely seams containing no appreciable void

Non-Destructive Evaluation of Cold Joints in Concrete

This technical note briefly discusses non-destructive evaluation of cold joints in concrete structures. We will review how structural engineers and quality control laboratories can utilize NDT

Lining cold joint defect formation mechanism and pouring interval ...

By intentionally interrupting the on-site pouring process and controlling the slurry injection timing, we systematically investigated the formation mechanisms and characteristics of cold joints.

Cold joints

Also shows the differences between cold joints and pour lines. Covers: lines at the formed surface, delay between placing batches, coping with a cold joint, investigating potential cold joints, structural

cold joint Topic

Practice oriented papers and articles ON COLD JOINT Impact of Retarder-Induced Roughness on Shear Friction Capacity using Conventional and High-Strength Reinforcement

Experimental investigation of the effect of cold joint on strength and ...

This study examines the impact of cold joints on the strength and stiffness of reinforced concrete beam-column connections through experimental testing on two specimens, one monolithically poured and

The Ultimate Guide to Preventing Cold Solder Joints:

Learn how to prevent cold solder joints with our ultimate guide. Master temperature, techniques, and tools for reliable PCB connections.

Lambda Cold Starts Demystified: With VPC, Provisioned

I recently put Lambda''s performance under a microscope, running experiments with different memory sizes, VPC attachments, and provisioned concurrency setups. My goal: to uncover

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Understanding Concrete Cold Joints: Causes, Prevention, And Repair ...

Learn about concrete cold joints: their causes, prevention strategies, and effective repair techniques to ensure structural integrity and durability.

Optimal Location and Time Interval of Concrete Placement on Vertical ...

Abstract Delays in concreting activity are inevitable and should always be considered to do a good and effective construction. The unwanted delay in the delivery of concrete mix causes the initially poured

Cold Solder Joint: Causes, How to Identify One, and How to Prevent It ...

A cold solder joint is one of the most common — and costly — PCB defects. Learn what causes them, how to identify them visually and electrically, and how temperature-controlled soldering

AWS Lambda Cold Starts Explained and Debugged

AWS Lambda Cold Starts Explained and Debugged AWS Lambda has fundamentally changed how teams build and deploy backend systems. It removes the burden of server management, scales

How to manage Lambda VPC cold starts and deal with

By Nathan Malishev All serverless computing suffers from the dreaded “cold start”, and AWS Lambda is no different. I''ve explored cold starts

Cold Joint | How to form Cold Joints | How to avoid Cold Joints ...

How cold joints form and how to avoid cold joints are discussed in this video. Proper construction planning, and adjusting the concrete setting time as required, could avoid the formation of the ...

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