

How long should the cold-jointed section be cut



Overview

Joints are cut $\frac{1}{4}$ of the depth of the slab. A 4 inch thick slab should have joints 1 inch deep. Space expansion joints, tooled or sawed, (in feet) no more than 2-3 times the slab thickness (in inches). Saw-cut timing: begin soft-cut as soon as concrete can be walked on without disturbing surface (typically 4-12 hours post-pour depending on temperature). Missing the saw-cut window is the #1 cause of mid-panel random cracking. Use the curing time calculator to estimate your window. ☐☐ ACI Quick. Question: Difference between a contraction joint, isolation joint, expansion joint, construction joint, an. These. How Long can Concrete Sit before a cold joint forms?

As a rule of thumb, we recommend that the time gap between the two batches does not exceed 30 minutes.



Article Content

May 02, 2026

Cold Joint in Concrete | Why Important to Know

Best practice should be avoiding the cold joint in concrete. However, there are cold joints in concrete due to an unavoidable reason,

Mar 21, 2026

Types of Concrete Joints and Their Purpose

Information on creating and placing joints in a concrete slab. Covers the main three types of concrete joints as well as tips for placing

Sep 26, 2025

Understanding Cold Joint Concrete

Learn about cold joint concrete, its causes, effects, and solutions for maintaining structural integrity.

Feb 03, 2026

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

The lack of proper bonding between two sections can lead to weak points in the structure, compromising

Jul 08, 2026

Understanding Cold Joint Concrete

What are the long-term effects of not addressing cold joints? Neglecting cold joints can result in water infiltration, decreased

Oct 17, 2025

How to Prevent Cold Joints in Concrete | Cold Joint in Slab

Variation in Mix Properties: If there are significant variations in mix properties, such as changes in aggregate size or cement content,

Oct 19, 2025

Understanding Cold Joints: Timing And Prevention In Concrete Pouring

Learn about cold joints in concrete pouring, their timing, and effective prevention strategies to ensure structural

May 16, 2026

Cold Joints in Concrete: How to avoid weak seams in small pours

A cold joint in concrete is a weak seam where fresh concrete meets earlier poured concrete. It happens when there is a delay or poor

Oct 24, 2025

Cold Joint | Cold Joint Concrete | Cold Joints In Concrete

How to Avoid Concrete Cold Joint To avoid concrete cold joints in structural members like columns, beams, and slabs it is necessary

Nov 21, 2025

Technical Advisory: Concrete Pavement Joints

Many jointed concrete pavement distresses either develop at the joints or are a result of improper joint design, construction, or

Dec 09, 2025

When, Where, and How to Make Saw Cuts in Concrete

Saw cuts are used to create control joints in concrete, which help control where cracking occurs due to shrinkage.

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Design and Construction of Joints for Concrete Streets

Longer slabs have a greater tendency to develop working mid panel cracks, which causes yielding or rupture of the steel

Dec 31, 2025

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

Among the cold jointed samples, the highest flexural strength was observed in XY-3/4-S and XY-3/4-L samples. An

Jul 10, 2026

When and How to Make Expansion Cuts in Concrete

Control concrete cracking by managing internal stress. Learn when, why, and how to make the right cuts, covering joint

Jan 04, 2026

Expansion Joints (2-page overview & treatment options)

For new concrete to receive a SUNDEK application, full consideration should be given to coincide with any patterns or designs. In

Mar 24, 2026

EUROPEAN CONCRETE PAVING ASSOCIATION

Finally, long service life and low maintenance also have a positive influence on the total cost of the pavement in relation to its

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(PDF) Mechanical behavior of concrete cold joints

A loss of resistance over 30% for cold concrete cylinders with diagonal joints was found, while concrete cylinders with

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cold joints Topic

Question: When should saw cuts be made on a concrete slab? Join A Committee
Share your construction knowledge

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Center for Transportation Research and Education:

Best Practices for Jointing of Concrete Pavements National Concrete Pavement
Technology Center Iowa's Lunch-Hour Workshop In

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cold joints Topic

FREQUENTLY ASKED QUESTIONS ON COLD JOINTS Question: Difference between a
contraction joint, isolation

Apr 21, 2026

Cold Joints [Prevention & Definition] | FMP Construction

When dealing with large structures, one way to prevent them from developing weak
spots from cold joints is to pour in

Feb 15, 2026

Cold Joint

Cold joint is an older term that is not very accurate. "Cold" implies a hardened
concrete surface but gives no clue as

Jun 22, 2026

All About of Cold Joint in Concrete | What is Cold Joint Concrete ...

Cold joint in the concrete is a defect which occurs in the concrete due to improper or delayed placing of the concrete

Jul 27, 2026

Correct execution of cold joints during concreting

Learn how to create cold joints during concrete pouring to ensure strong and durable results. Discover techniques, tips, and best

Oct 29, 2025

Cold Joint in Concrete | Why Important to Know

Cold joint in concrete a structure can be occurred due to the lack of attention of the supervision team or

Jun 16, 2026

Cutting Joints In Concrete: Timing And Techniques For Optimal Results

The timing of cutting these joints is crucial; it's generally recommended to cut them within 4 to 12 hours after the

May 15, 2026

Concrete Joint Spacing Per ACI 360R-10: Control Joints, Saw-Cut

Saw-cut timing: begin soft-cut as soon as concrete can be walked on without disturbing surface (typically 4-12 hours post-pour

Feb 03, 2026

How to Repair a Cold Joint in Concrete? (Effectively!)

Use of epoxy injection Each option has its pros and cons and specific characteristics and suitability – let's detail them below. Note:

Nov 06, 2025

Jointing Basics for Concrete Pavements

Early age cracking is controlled through jointing Good jointing practices can go a long way to help prevent cracking at later ages as

Contact Us

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