

ConcreAdd Retard

Set-Retarding Admixture for
Controlled Placement



Description

ConcreAdd Retard is a liquid, chloride-free set-retarding admixture designed to delay the initial set of concrete without sacrificing early or ultimate strength. It preserves slump and finishability during hot weather, long haul times, complex pours, and mass concrete—helping you place, compact and finish with confidence while reducing the risk of cold joints and plastic shrinkage cracking.

- Predictable set delay across a wide temperature range.
- Maintains workability and pumpability without extra water.
- Minimises thermal and shrinkage stresses in large pours.
- Compatible with most cements, SCMs, and other admixtures.
- Chloride-free; suitable for reinforced and prestressed concrete.

SERVICES

Cementitious coating

Crystalling Coating

Addmixture

Sealant

Grout

Epoxy primer

Repair Mortar

Flooring

PU flooring

PU coating

Bitumen Coating

Latex

Waterstopper

Recommended Uses

- Mass rafts, pile caps, transfer slabs
- Long transit or pumping distances
- Hot and windy weather concreting
- Complex placements with congested steel
- Sequenced pours where joint control is critical



Technical Data

Property	Value
Appearance	Clear to pale amber liquid
Specific Gravity (25 °C)	1.08 ± 0.02
pH	7.0–9.0
Chloride Content	≤ 0.10% (chloride-free formulation)
Alkali Content (Na ₂ O-eq.)	≤ 1.5%
Dosage Range	0.20–0.80% by weight of cement (bwoc)
Typical Set Delay*	~1–4 hours depending on dose, cement and temperature
Effect on Strength	Maintains or improves 28-day strength at proper dose
Compatibility	Compatible with plasticizers, superplasticizers, air-entrainers & pozzolans

*Actual set delay depends on temperature, cement chemistry, SCMs and total alkalies. Trial mixes are essential.

Consumption

Normal dosage:	0.20–0.60 litres per 100 kg of cement (bwoc)
High retardation / hot weather: times	up to 0.80 litres / long haul per 100 kg of cement (bwoc) — site trials recommended

Guidance: Add admixture to the mixing water or freshly mixed concrete. Do not add directly to dry cement. Adjust dosage according to temperature, cement type, and desired set delay.

Standards

- Meets the requirements of ASTM C494 Type B (Retarding Admixture).
- Conforms to the intent of EN 934-2 (Set-retarding admixtures), when used as directed.

Important Information

Supplied in: 25 kg bag

Storage: Store dry, frost-free, out of direct sunlight

Shelf Life: 6 months in original packaging

Hazard Class: Non-hazardous goods. Consult MSDS for details.

Application Guidelines

Dispensing

Add ConcreAdd Retard to the concrete mix at the recommended dosage. For best results, introduce the admixture into the mixing water or into freshly mixed concrete to ensure uniform dispersion. Do not add directly to dry cement.

Mixing

Add with the gauging water or directly into the mixer during batching. Allow a minimum of 60–90 seconds of mixing after the admixture addition to achieve complete and uniform distribution.

Compatibility

Compatible with most types of cement and supplementary cementitious materials. May be used with other admixtures; however, each admixture should be added separately to the mix. Conduct site trials when combining multiple admixtures.

Placement

Place, consolidate and finish the concrete using normal methods. Monitor setting time on site, as dosage and ambient conditions affect retardation.

Storage & Handling

Store in original, tightly closed containers in a cool, frost-free environment out of direct sunlight. Protect from freezing. If the product has been frozen, allow it to thaw and remix before use.

Cleaning of Equipment

Clean spillage and equipment with clean water before the admixture hardens or dries.

The information above reflects Core Chemicals' current knowledge and is provided to assist specifiers and contractors. It does not replace project-specific trials to confirm suitability. Data are typical values under standard conditions; on-site results may vary. Recommendations are offered in good faith without warranty, as factors beyond our control can affect performance. Core Chemicals may revise specifications without prior notice. Users are responsible for compliance with applicable standards and regulations. Technical assistance is available on request.

The Core Chemicals

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