

# ConcreAdd Superplast

High-Range Water-Reducing  
Superplasticizer (HRWR)



## Description

ConcreAdd Superplast is a modern polycarboxylate-based superplasticizer that delivers high flow at low water-cement ratios for stronger, denser concrete. It provides excellent slump retention, pumpability and finish while minimising segregation and bleed. Ideal for precast and ready-mix where consistent quality and speed of placement matter.

- Major water reduction with maintained workability.
- Higher early and ultimate strengths; reduced permeability.
- Smooth, defect-free finishes; improved compaction around congested steel.
- Compatible with most cements and supplementary cementitious materials.
- 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

- High-strength columns, beams and slabs
- Precast elements and SCC/flowing concrete
- Dense reinforcement / complex formwork
- Fair-faced and architectural concrete
- Pumped concrete and long lines



# Technical Data

Property	Value
Appearance	Clear to pale straw liquid
Chemistry	Polycarboxylate ether (PCE)
Specific Gravity (25 °C)	1.06 ± 0.02
pH	5.0–7.0
Chloride Content	≤ 0.10% (chloride-free formulation)
Alkali Content (Na <sub>2</sub> O-eq.)	≤ 1.5%
Dosage Range	0.60–1.50% bwoc (by weight of cement)*
Water Reduction	Up to 25–35% (mix-dependent)
Slump Retention	30–90 min typical*
Air Entrainment	Nil to slight (mix-dependent)
Compatibility	Works with fly ash, GGBS, silica fume, limestone fillers and most admixtures pozzolans

\*Performance depends on cement chemistry, temperature, SCMs and total alkalies; confirm with trials.

## Consumption

Normal dosage:	0.60–1.20% bwoc (by weight of cement)
High workability:	0.90–1.20% bwoc
Self-Compacting Concrete (SCC):	1.20–1.50% bwoc (trial mixes required)
Slump retention:	0.80–1.50% bwoc (use with retarder if needed)
General guidance:	Add to gauging water or fresh concrete; mix 60–90 s for full dispersion. Adjust admixture, not water to regain slump.

## Standards

- Meets the requirements of ASTM C494 Type F (High-Range Water-Reducing Admixture) when used as directed.
- Conforms to the intent of EN 934-2 (Superplasticizing admixtures).

## 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

ConcreAdd Superplast should be added 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 the admixture with the gauging water or into the mixer during batching. Allow adequate mixing time (minimum 60–90 seconds after admixture addition) to achieve full dispersion and performance.

## Compatibility

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

## Storage & Handling

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

## Cleaning of Equipment

Spillage and equipment can be cleaned 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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