

CHEMCRETE RETAIN90



Chemcrete RETAIN 90 is a blend of next generation modified polycarboxylates (PCEs) which is designed to be used as a high performance superplasticiser/high range water reducer with improved slump retention.

RETAIN 90 is specifically formulated to provide high water reduction and/or flowability with excellent slump retaining properties. This makes it ideal for all high consistence class ready mix concrete, particularly with longer transit times or on larger pours where site delays are anticipated.

RETAIN 90 permits high workability or water reduction of up to 30% allowing concrete to be supplied to site at a consistence that is practical for placing but at a w/c ratio that is economical, without the need for addition on site to maintain workability.

Long Slump Retention
High Water Reduction
High Workability
Excellent Strength Development

TECHNICAL INFORMATION

FORM: Liquid

COLOUR: Opaque Pale Yellow/Brown

SPECIFIC GRAVITY: 1.045 - 1.085 g/ml

pH: 5.0 - 7.0

CHLORIDE CONTENT: < 0.1% w/w

Na₂O EQUIVALENT: <1.0% w/w

FREEZING POINT: 0°C

EN934 TYPE: BS EN 934-2 Table 3.1/3.2

DIRECTIONS FOR USE:

DOSAGE

Chemcrete RETAIN 90 is normally used at 0.2 – 0.8L per 100kg of cement. Trial mixes should be carried out to determine the optimum dosage rate. A dosage of 0.5% by weight of cementitious content would be a normal starting point. For SCC or very high flowability mixes, dosage can be increased up to a maximum of 2%. For advice, contact Larsen Technical Department.

DISPENSING

Chemcrete RETAIN 90 should be dispensed into the mixer after the cement(s), aggregates and water. For best results it is added after 75% of the mixing water. To ensure optimum benefit with low water cement ratio mixes, mixing times should be increased by approx. 50%. Chemcrete RETAIN 90 should never be added to the dry cement.

COMPATIBILITY

Chemcrete RETAIN 90 can be used with all types of Portland cement and blended cements. It can also be used with other admixtures for example Chemcrete MP500. When used in conjunction with other admixtures, each must be dispensed separately into the concrete mix. It is always recommended to carry out trials to ensure compatibility. Please consult our Technical Department.

OVERDOSAGE

Severe overdosage can cause increased workability leading to segregation.

STORAGE

This product must be stored in closed containers protected from extremes of temperature. If the product has frozen, thaw at temperatures above +4°C and reconstitute by mechanical agitation only and carry out trials to ensure continued suitability for use.

SHELF LIFE

12 months in unopened manufacturer's containers.

PACKAGING

Chemcrete RETAIN 90 is supplied in 25L, 200L and bulk if required.