



Version: 01 Issued: Sep 12

CHEMCRETE HP3

Larsen Chemcrete HP3 is a '3rd generation' high performance superplasticiser/high range water reducer. HP3 is a solution of a polycarboxylate polymer and acts through a steric repulsion mechanism. This permits high workability or water reduction of up to 30%. Where normal superplasticisers like melamine and naphthalene sulphonates operate through an electrostatic repulsion mechanism, the improved performance of 3rd generation superplasticisers like HP3 results from a mechanism based on steric hindrance. This mechanism is more efficient at dispersing and maintaining dispersion of the cement and filler particles and allows high workability and slump retention without retardation effects.

TECHNICAL INFORMATION

FORM: Liquid

COLOUR: Amber

SPECIFIC GRAVITY: ~1.07 g/ml

pH: ~6.0

CHLORIDE CONTENT: <0.1% w/w

FREEZING POINT: 0°C

EFFECT ON SETTING: Negligible

AIR ENTRAINMENT: <1% increase

BS EN 934-2 Table 3.1/3.2
UP TO 30% WATER REDUCTION
INCREASES WORKABILITY
HIGH EARLY STRENGTHS
HIGH ULTIMATE STRENGTHS
NO RETARDATION AT NORMAL DOSAGES
IDEAL FOR PRECAST CONCRETE AND FLOORING
APPLICATIONS



TECHNICAL DATA SHEET

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DIRECTIONS FOR USE:

DOSAGE

Chemcrete HP3 is supplied ready for use and should be added with or after the mixing water. Do not add directly to dry cement. As Chemcrete HP3 has a wide range of applications dosage may vary between 0.2 – 1.0% by weight of cement. As such, trial mixes should be carried out to determine the optimum dosage rate.

COMPATIBILITY

Chemcrete HP3 can be used with all types of Portland cement. It can also be used with other admixtures. When used in conjunction with other admixtures each must be dispensed separately into the concrete mix. Please consult our Technical Department.

OVERDOSAGE

Severe overdosage can cause retardation, air entrainment and 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.

SHELF LIFE

12 months in unopened manufacturer's containers.

PACKAGING

Chemcrete HP3 is supplied in 25L, 200L and bulk if required.