



AEROTM
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

AEROSET NCL

Non – Corrosive, Non-chloride Set Accelerating Admixture

Description

AEROSET NCL is a non-corrosive, non-chloride admixture for concrete. It accelerates cement hydration resulting in shortened setting times and increased early compressive strengths. AEROSET NCL does not contain calcium chloride and is completely non-corrosive to reinforcing steel, metal decks, and to all metal components. In concrete mixes, SAYOSET accelerates the chemical reaction between Portland cement and water. It speeds up the formation of gel the binder that bonds concrete aggregates.

Uses

To accelerate the setting and early strength gain of Portland cement concrete and mortar mixes without the introduction of chloride. Acts as a plasticiser, so gives significant increases in both ultimate and early strengths. Typical applications include precast concrete, concrete placed in cold weather, concrete for repairs, mortars for brickwork.

AEROSET NCL may be used to speed finishing operations and/pr form removal, leading to savings in concrete construction costs.

Advantages

- Chloride free – safe in prestressed and reinforced concrete.
- Suitable for bricklaying mortar mixes.
- Early setting improves frost resistance.
- Plasticizing action gives increased workability and/or increased compressive strength.
- Particularly effective in concrete at low temperatures.
- It can also be used in concrete that is to be placed on steel clad or zinc coated steel decks where corrosion must be similarly avoided.

Standards Compliance

AEROSET NCL complies with BS 5075 Part 1 and ASTM C494 Type C.

Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Specific gravity	1.260 - 1.270 at 270C
2	Freezing point	-160C
3	Chloride content	Nil to BS 5075
4	Air entrainment	Less than 1%
5	Compatibility with cements	May be used with all types of Portland cements. Not suitable for use with high alumina cement.
6	Acceleration	The addition of SAYOPLAST NCL to Portland cement concrete mixes accelerates both the setting and rate of strength gain. The strength improvements are most significant during the first 18 hours.
7	Long term effects	Accelerated corrosion testing of steel in concrete has shown that SAYOPLAST NCL does not affect the protection of steel afforded by cement against corrosion even at four times the normal dose level.

Instruction for use

Mixing :

AEROSET NCL should be added direct into the mixer. Best results are obtained when added at the same time as the mixing water.

Curing : A concrete curing membrane should be used, or alternative methods such as polythene, water spray or wet hessian.

Cleaning : Spillages of **AEROSET NCL** can be removed with water.

Dosage

The amount of AEROSET NCL used will depend on specific job conditions, on local materials and on the degree of set acceleration and early strength development required. Typical addition levels range from 1 to 1.5 liter / 50 kg of cementitious material, but levels as high as 3 liter / 50 kg of cementitious material can be used. For freeze protection purposes typical addition rates are between 1 Liter and 3 liter / 50 kg of cementitious material.



CONCRETE ADMIXTURES



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Packing

AEROSET NCL is supplied in 1, 5, 10, 50, 100 and 200 litre drums.

Shelf Life & Storage

AEROSET NCL has a shelf life of 12 months from date of manufacture when kept at a temperature between 5 °C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

Quality Assurance

AERO CONCHEM LLP is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2008.

Health & Safety

AEROSET NCL is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

OUR RANGE OF PRODUCTS



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