

Product Description

La AdCrete ES is guaranteed completely free of all forms of chloride and is supplied as a light straw coloured liquid.

The main active ingredient is an inorganic format.

Standards

La AdCrete ES complies with BS 5075 Part 1 and ASTM C494 Type C.

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, placed in cold weather, concrete for repairs, mortars for brickwork.

Advantages

- Chloride free, safe in prestressed and reinforced concrete
- Produces exceptionally high early strengths
- Plasticising action gives increased workability and/or increased strengths
- Early setting improves frost resistance
- Suitable for bricklaying mortar mixes
- Particularly effective in concrete at low temperatures

Technical Properties

| | |
|------------------|---|
| Specific Gravity | 1.260 - 1.27 ⁰ @ 27 ⁰ C |
| Freezing Point | -16 ⁰ C |
| Chloride content | Nil to BS 5075 |
| Air Entrainment | < 1% |

Compatibility with cements: May be used with all types of Portland cements. Not suitable for use with high alumina cement.

Acceleration : The addition of La AdCrete ES 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.

Long term effects : Accelerated corrosion testing of steel in concrete has shown that La AdCrete ES does not affect the protection of steel afforded by cement against corrosion even at four times the normal dose

Application Instructions

Dosage

The recommended dosage range for standard concrete and mortar mixes with all grades of Portland cement is 2.0 to 3.0 litres per 100 kg cement (see table).

Over Dosage

An overdose of double the recommended amount of La AdCrete ES will result in a slight increase in initial acceleration, but will not materially alter the ultimate strength or characteristics of the cured concrete or mortar.

Mixing

La AdCrete ES should be stirred before use.

Dispensing

The correct quantity of La AdCrete ES should be measured by means of a recommended dispenser.

La AdCrete ES should be added direct into the mixer. Best results are obtained when added at the same time as the mixing water.

Curing

La Cure WB, curing membrane or alternative methods such as polythene, water spray or wet hessian should be used.

Cleaning

Spillages of La AdCrete ES can be removed with water.

Storage

Minimum shelf life of 12 months in unopened containers under normal warehouse conditions.

Health & Safety

Non-toxic, non-flammable, eco-friendly. In case of eye contact flush immediately with water, before approaching an ophthalmologist

Typical effect of La AdCrete ES on strength gain

| Curing Temperature | La AdCrete ES Dosage Litres/100kg | Initial set (BS 5075) hrs. | Final set (BS 5075) hrs. | Compressive strength(N/mm ²) | | | | | |
|--------------------|-----------------------------------|----------------------------|--------------------------|--|-------|-------|-------|-------|--------|
| | | | | 10hrs | 18hrs | 24hrs | 3Days | 7Days | 28Days |
| 5°C | NIL | 14 | 19 | - | - | 1.5 | 5.5 | 17 | 32 |
| | 2.5 | 12 | 17 | - | 0.5 | 3.0 | 10 | 20 | 36 |
| 10°C | NIL | 4 | 06 | - | - | 2.5 | 08 | 20 | 35 |
| | 2.5 | 3 | 4½ | - | 2.0 | 4.5 | 13 | 24 | 40 |
| 20°C | NIL | 3 | 4 | 1.0 | 4.5 | 6.0 | 17 | 29 | 43 |
| | 2.5 | 2 | 3 | 3.5 | 9.0 | 11.0 | 24 | 36 | 48 |

Important: La Greens India Pvt. Ltd., products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, La Greens India does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.



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