

Technical Data Sheet



Larsen Admixture



High range concrete superplasticiser
admixture



Description

Larsen Admixture is a high performance liquid concrete admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used to improve workability and to increase ultimate strengths by the very high levels of water reduction in the concrete mix.

Larsen Building Products (I) Pvt. Ltd.

Tiles & Stone Adhesive | Grouting | Screeds | Waterproofing | Admixture | Epoxy Flooring

Rajasthan Office : 208, Ganpati Tower, Amrapali Marg, Vaishali Nagar, Jaipur-302 021-Rajasthan
Head Office : A-1, TST Mansion, Tsimshatsuei Kowloon Hong Kong
E-mail : support@neolarsen.com, www.neolarsen.com • C. Care : +91-9982388929

Applications

- To increase workability retention on of fresh concrete.
- To provide increased ultimate strength by reducing water demand in concrete mixes.
- To produce high quality concrete of improved durability by reducing permeability.

Advantages

- ❖ Higher strength with same cement content.
- ❖ Minimizing segregation on problems by improving cohesion.
- ❖ Improved workability reduces placing and compaction problems.
- ❖ Cement saving without affecting strength.
- ❖ More durable concrete as a result of reduction in permeability and lower water to cement ratio
- ❖ Chloride free.

Compatibility

Larsen Admixture can be used with all types of Portland cement and cement replacement materials. Larsen Admixture is compatible with other Larsen admixtures used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

Standards

Larsen Admixture complies with ASTM C494, Type G and IS9103:1999; reaffirmed 2008.

Method of Use

Larsen Admixture should be added to the concrete with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of Larsen Admixture to the concrete mix

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Technical Properties @ 25 C:

Colour	:	Brown liquid
Freezing point	:	≈-2°C
Specific gravity	:	1.20 ± 0.03
Chloride content	:	
BS5075	:	Nil
Air entrainment	:	Typically less than 2% additional air is entrained above control mix at normal dosages

Dosage

The guidance dosage of Larsen Admixture is 0.80 – 2.60 litre/100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica. Representative trials should be conducted to determine the optimum dosage of Larsen Admixture to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Larsen Admixture will cause the following:

- Significant increase in retardation.
- Increase in workability
- Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

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Setting Time

Although the setting time is dependent on the dosage of Larsen Admixture, the following factors should be considered

1. Retardation is increased with lower levels of tri-calcium in the cement.
2. Lower temperatures will delay the setting time.
3. SRC cement gives higher retardation level than ordinary cement.
4. Using more than one type of admixture in the same concrete mix could affect the setting time
5. Retardation level is increased when cement replacement materials are used in the concrete mix.

Cleaning

Larsen Admixture can be washed with fresh cold water.

Packaging

Larsen Admixture is available in 20 kg, 50 kg and 200 kg carbuoy/drums supply.

Storage

Larsen Admixture has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C. If these conditions are exceeded, Larsen Technical Department should be contacted for advice.

Cautions

Health and Safety

Larsen Admixture is not classified as hazardous material. Larsen Admixture should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly. For further information refer to the Material Safety Data Sheet.

Fire

Larsen Admixture is nonflammable.

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