



**AERO**<sup>TM</sup>  
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

## AEROPLAST PCE SUPER

Advanced Low Viscosity High Performance Super-plasticiser, based on Polycarboxylic technology

### Description

AEROPLAST PC SUPER is a unique combination of the latest generation super plasticisers, based on a polycarboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete. AEROPLAST PC SUPER combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

### Uses

AEROPLAST PC SUPER is a high performance super plasticiser intended for applications where high water reduction and long workability retention are required, and it has been developed for use in:

- Self-compacting concrete
- Pumped concrete
- Concrete requiring long workability retention
- High performance concrete, RMC/batching plants.

### Standards Compliance

AEROPLAST PC SUPER complies with IS: 9103-1999(2007). It also complies with ASTM C494 Type G depending on the dosage used.

### Advantages

- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Higher E modulus
- Improved adhesion to reinforcing and prestressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

### Dosage

The optimum dosage of AEROPLAST PC SUPER to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.2% to 1.6% of cementitious material in concrete mix design. Dosage outside the normal range quoted above can be

### Typical Properties & Specifications:

| Sr.No | Properties              | Specification  |
|-------|-------------------------|--|
| 1     | Appearance              | Light yellow coloured liquid   |
| 2     | pH                      | Minimum 6.0  |
| 3     | Volumetric mass @ 20° C | 1.09 kg/litre  |
| 4     | Chloride content        | Nil to IS:456  |
| 5     | Alkali content          | Typically less than 1.5 g Na <sub>2</sub> O equivalent / litre of admixture. |

used to meet particular mix requirements. Contact AERO CONCHEM LLP for advice in these cases. Over dosage may cause delay in the setting time and segregation.

### Packaging

AEROPLAST PC SUPER is available in 1 kg, 5 kg, 10 kg, 50 kg, 100 kg, 200 kg and 250 kg drums and bulk tanker.

### Storage

AEROPLAST PC SUPER has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50° C. Should the temperature of the product fall outside this range then contact AERO CONCHEM LLP for advice.

### Health and safety instructions

AEROPLAST PC SUPER does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. The product is non-flammable and non-hazardous in nature.



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### OUR RANGE OF PRODUCTS



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