



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

AN ISO 9001 : 2008 CERTIFIED COMPANY

## AEROPLAST 100

### High Performance Water Reducing And Super Plasticising Admixture

#### Description

AEROPLAST 100 is based on Sulphonated Napthalene Polymers and is supplied as a brown liquid instantly dispersible in water. AEROPLAST 100 has been specially formulated to give high water reductions upto 25% without loss of workability or to produce high quality concrete of reduced permeability.

#### Uses

- To produce pumpable concrete
- To produce high strength, high grade concrete by substantial reduction in water resulting in low permeability and high early strength.
- To produce high workability concrete requiring little or no vibration during placing.

#### Advantages

- Improved workability - Easier, quicker placing and compaction.
- Increased strength - Provides high early strength for precast concrete if water reduction is taken advantage of.
- Improved quality - Denser, close textured concrete with reduced porosity and hence more durable.
- Higher cohesion - Risk of segregation and bleeding minimised; thus aids pumping of concrete.
- Chloride free - Safe in prestressed concrete and with sulphate resisting cements and marine aggregates.

#### Standards

AEROPLAST 100 complies with IS:9103:1999 and BS:5075 Part 3. AEROPLAST conforms to ASTM-C-494 Type 'G'.

#### Compatibility

Can be used with all types of cements except high alumina cement. AEROPLAST 100 is compatible with other types of AERO CONCHEM admixtures when added separately to the mix. Site trials should be carried out to optimise dosages.

#### Workability

Can be used to produce flowing concrete that requires no compaction. Some minor adjustments may be required to produce high workable mix without segregation.

#### Cohesion

Cohesion is improved due to dispersion of cement particles thus minimising segregation and improving surface finish.

#### Compressive Strength

Early strength is increased upto 40% if water reduction is taken advantage of. Generally, there is improvement in strength upto 20% depending upon W/C ratio and other mix parameters.

#### Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Physical Appearance	Brown colour liquid
2	Specific gravity	1.190-1.210 at 27°C
3	pH at 27°C	Minimum 6
4	Chloride content	Nil to IS:456

#### Durability

Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete.

#### Application Instructions

##### Dosage

Trials need to be carried out at site to determine the exact dosage of the admixture for the particular mix design and materials. However for normal grades of concrete a dosage from 0.5% - 1.0% by weight of cementitious material is recommended, the dosage may be increased to 1.5% to achieve specific slump requirements. For microsilica concrete where a high amount of water reduction and slump retention are required, trials need to be carried out to arrive at the correct dosage, as the dosage may increase upto 2.0% or even upto 2.5% by weight of cementitious material depending on mix design and performance required.

##### Overdosage

An overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.

##### Dispensing

The measured quantity of AEROPLAST 100 should be added along with the gauging water. For best results, add AEROPLAST 100 in the last phase after prewetting the mix with 80% of the total water required.

##### Packing

AEROPLAST 100 is supplied in 200 litre and 250kg.

##### Storage

AEROPLAST 100 has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from extreme temperatures and preferably stored in shade.



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#### Precautions

#### Health & Safety

AEROPLAST 100 is non-toxic. Any splashes on the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

#### Fire

AEROPLAST 100 is non flammable.

#### Non-Warranty

The information herein is based upon the best information available at the time of printing. Data provided is intended for those having skill and ability to use products recommended in a safe and responsible manner. Liability is limited to the cost of material proven to be defective. There is no warranty expressed or implied as related to any issue which is deemed to be a direct result of improper surface preparation or cleaning, application over concrete or cementitious surfaces which have not reached full cure, those having excessive rising moisture/vapour or hydrostatic pressure, application over

surface which have previously been sealed without first testing for compatibility/adhesion, adverse water condition, acts of God or acts of others, constant submersion in harsh environments, workmanship or applicator, or any other cause and effect which is not related to defective material.

#### OUR RANGE OF PRODUCTS



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