



# BHARATBUILD CONCHEM SOLUTIONS

Quality is our strength

## TECHNICAL DATA SHEET

# BHARATPLAST S6001

HIGH PERFORMANCE SUPER PLASTISIZER

### Description

BHARATPLAST S6001 is a new generation high performance superplasticizer intended for applications where high water reduction and long workability retention are required. BHARATPLASAT S6001 is latest generation PCE based superplasticizer. It has been specially formulated to give high water reductions up to 30% (varies according to site condition) without loss of workability or to produce high quality concrete of reduced permeability.

### Advantages

- ❖ High water Reduction up to 30%
- ❖ Low viscosity suitable for pumping of different grades of concrete
- ❖ Can also be utilized for high strength and high performance concrete.
- ❖ Improved adhesion to reinforcing and pre-stressing steel.
- ❖ Less permeable and hence more durable concrete.
- ❖ Reduction in Shrinkage Cracks.
- ❖ Better resistance to aggressive atmospheric conditions.

### Standards compliance

BHARATPLAST S6001 complies with IS:9103, BS:5075 and ASTM-C494 Type 'G' as a high range water reducing admixture.

### Properties

Appearance : Yellowish to Brownish liquid  
 Specific gravity :  $1.08 \pm 0.02$  at 27°C  
 pH : Minimum 6.0  
 Chloride content : As per BS: 5075 Part I

**Workability:** It can be used to produce flowable 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 minimizing segregation and improving surface finish.

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



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## Application instructions

**Dosage:** The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with BHARATPLASAT S6001 should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 0.4 – 1.5% by weight of cementitious Material.

**Over dosing:** Dosage outside the normal range quoted above can be used to meet particular mix requirements. Contact Bharatbuild for advice in these cases. As such, more than the recommended dosage may be used if necessary by ascertaining the performance in the lab trials only before using in actual site conditions.

**Dispensing:** The correct quantity of BHARATPLASAT S6001 should be used by means of a dispenser. The measured quantity of BHARATPLASAT S6001 should be added along with a part of gauging water incase of batching plants. Alternatively, correct dosage should be used with about 20 to 30 % of the total water in the last phase after the mix has been rewetted.

## Estimating

**Packaging** BHARATPLASAT S6001 is supplied in 230 KG HDPE Barrels.

**Storage** BHARATPLASAT S6001 has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from direct sun light. Failure to comply with recommended storage condition might results in premature deteriorate of the products and packaging.

## Precautions

**Health & Safety** BHARATPLASAT S6001 is non-toxic & inflammable. Any splashes on the skin should be washed immediately with cold water. Splashes to the eyes should be washed immediately with cold water and medical advice should be sought.

**FIRE :** BHARATPLAST S6001 is non flammable.