



BHARATBUILD CONCHEM SOLUTIONS

Quality is our strength

TECHNICAL DATA SHEET

BHARATPLAST S4005

HIGH PERFORMANCE CONCRETE ADDITIVE

Description

BHARATPLASAT S4005 is latest generation PCE based Concrete additive. BHARATPLASAT S4005 has been specially formulated to give high water reductions up to 25% without loss of workability or to produce high quality concrete of reduced permeability.

Advantages

- ❖ Low viscosity suitable for pumping of different grades of concrete to higher floors
- ❖ Can also be utilized for high strength and high performance concrete.
- ❖ At high dosage it does not have high retardation effect.
- ❖ Improved adhesion to reinforcing and pre-stressing steel.
- ❖ Reduced permeability.
- ❖ Better resistance to aggressive atmospheric conditions.
- ❖ Increased durability

Standards compliance

- ❖ BHARATPLAST S4005 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 : 1.05 ± 0.02 at 27°C
 pH : Minimum 6.0
 Chloride content : Nil (As per BS: 5075 Part I)

Compressive strength: Early strength is increased upto 40 to 50% if water reduction is taken advantage of. Generally, there is improvement in strength upto 20% depending upon W/C ratio and other mix parameters.

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 S4005 should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 0.5 - 2% by weight of cement.



BHARATBUILD CONCHEM SOLUTIONS

Quality is our strength

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 S4005 should be used by means of a dispenser. The measured quantity of BHARATPLASAT S4005 should be added along with a part of gauging water in case of batching plants. Alternatively, correct dosage should be used with about 20% of the total water in the last phase after the mix has been rewetted.

Estimating

Packaging BHARATPLASAT S4005 is supplied in 230 KG drums.

Storage BHARATPLASAT S4005 has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from extreme temperatures and should be stored in shade directly away from Sun light.

Precautions

Health & Safety BHARATPLASAT S4005 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 BHARATPLASAT S4005 is nonflammable.