

**Redwop**<sup>®</sup>  
INNOVATING FOR A BETTER WORLD

**CONCRETE ADMIXTURE**



## PLASTCONE AP 430

Superplasticizing admixture

### Description

**PLASTCONE AP 430** is based on Sulphonated Naphthalene Polymers and supplied as a brown liquid instantly dispersible in water. PLASTCONE AP 430 has been specially formulated to give high water reductions without loss of workability or to produce high quality concrete of reduced permeability.

### Advantages

- Reduce cement content, permeability and provide water proofing effect
- It control the setting of large structural unit to keep concrete workable throughout the placing period.
- Reduce effort required for placement
- More effective use of cement
- More rapid rate of early strength development

### Uses

- To produce dense and impermeable concrete
- In all types of low and high rise buildings
- In congestion reinforcement and where vibration is difficult
- To produce high strength concrete, Ready-mix concrete, high performance concrete etc.
- To produce concrete which can be transported over a long distance
- To produce homogenous and cohesive concrete without tendency of segregation and bleeding

### Confirm standard

- IS 9103:1999

### Compliance standard

- BS: 5075:1985 part-3
- ASTM C1141 Type 'F' as a high range water reducing admixture and Type 'A' .

## Technical Information

PROPERTIES	RESULTS
Appearance	Brown Liquid
Sp. Gravity	1.15 to 1.20 @25°C
pH Value	7 to 8
Chloride Content	Nil

## Method of Application

- Optimum dosage of PLASTCONE AP 430 should be determined with trial mixes. As a guide, a dosage range of 0.8 to 1.2 % volume by weight of cement is normally recommended. It can be directly added into the mix at the same time as the gauging water. Reduce water dosages for required consistency if needed.

### This in turn leads to a series of associated benefits

- **Enhanced durability:** PLASTCONE AP 430 reduces water cement ratio which directly increases the compressive strength and enhances the durability.
- **Compatibility:** PLASTCONE AP 430 is compatible with other types of admixture when added separately to the mix. Site trials should be carried out to optimize dosages. It has no adverse effects on reinforcing elements
- **Permeability:** Reduced water- cement ratio reduces capillary porosity and improves water tightness. Improved workability facilitates easy placing and good compaction, resulting in production of dense, impermeable concrete

## Over dosing

- An overdose of double the intended amount of PLASTCONE AP 430 will result in an increase retardation as compared to that normally obtained at the intended dosage.

## Curing

- It is strongly recommended that concrete should be properly cured.

## Packaging

- PLASTCONE AP 430 is supplied in 50 & 250 Kg container

## Storage

- Minimum of 12 months shelf-life if kept under room temperature (i.e. 27°C).

## For selection of admixture

- As per your project please visit our smart store in [www.redwop.net](http://www.redwop.net)

**Note:** All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary according to trials and quality of material availability.

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