

# PLASTCONE 430G8

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## Superplasticising admixture

### Uses:

- To produce pumpable concrete
- To produce high strength, high grade concrete M30 & above 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 with the advantage of higher water reduction ability.
- **Improved quality** - Denser, close textured concrete with reduced porosity and hence more durable.
- **Higher cohesion** - Risk of segregation and bleeding minimized; thus aids pumping of concrete
- **Chloride free** - Safe in prestressed concrete and with sulphate resisting cements and marine aggregates.

### Description:

PLASTCONE 430G8 is based on Sulphonated Naphthalene Polymers and supplied as a brown liquid instantly dispersible in water.

PLASTCONE 430G8 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.

### Standards compliance

Plastcone 430G8 complies with IS:9103:1999 and BS:5075 Part 3 - 1985, and ASTM-C494M Type 'F' as a high range water reducing admixture Type 'A'

### Properties:

- **Specific gravity** 1.24 to 1.26
- **Chloride content** Nil to IS:456
- **Air entrainment** Approx. 1% additional air is entrained
- **Compatibility:** Can be used with all types of cements except high alumina cement. PLASTCONE 430G8 is compatible with other types of admixtures when added separately to the mix. Site trials should be carried out to optimize 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.

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- **Cohesion:** Cohesion is improved due to dispersion of cement particles thus minimizing segregation and improving surface finish.
- **Compressive strength:** Early strength is increased up to 20% if water reduction is taken advantage of. Generally, there is improvement in strength up to 20% depending upon W/C ratio and other mix parameters.
- **Durability:** Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete.

### 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 PLASTCONE 430G8 should always be compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 0.5 - 2.0 liters / 100 kg cement.

**Over dosing:** An over dose of double the recommended amount of PLASTCONE 430G8 will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired.

**Dispensing:** The measured quantity of PLASTCONE 430G8 should be added along with the gauging water. For best results, add PLASTCONE 430G8 superplasticiser in the last phase after prewetting the mix with 80% of the total water required.

### Estimating

**Packing:** PLASTCONE 430G8 is supplied in 25, 50 and 250 kg drums.

### Precautions

**Health and Safety instructions:** PLASTCONE 430G8 is non-toxic. Any splashes on the skin should be washed immediately with water. Splashes on the eyes should be washed immediately with water and medical advice should be sought.

**Fire:** PLASTCONE 430G8 is non flammable.

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## Typical results

M-30 mix, Sand Zone 2 (40%), coarse aggregate -

20 - 5mm (60%) Cement: L&T OPC

TEST	CEMENT CONTENT KG/M <sup>3</sup>	DOSAGE OF PLASTCONE 430G8	W/C RATIO	SLUMP MM	COMPRESSIVE STRENGTH		
					3D	7D	28D
<b>CONTROL</b>	375	Nil	0.57	55	10	26	40
<b>Workability increased</b>	375	0.5L	0.57	140	11	30	43
<b>Strength Increased</b>	375	0.5L	0.46	52	16	40	48

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