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INNOVATING FOR A BETTER WORLD

**CONCRETE ADMIXTURE**



# PLASTCONE AP 211

Water reducing concrete admixture

## Description

**PLASTCONE AP211** is a chlorine free water reducing admixture based on selected sugar-reduced lignosulphates. It is supplied as a brown solution which instantly disperses in water. It disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively and improving the consistency of the concrete. This produces higher levels of workability for the same water content, allowing benefits such as water reduction and increased strengths to be taken.

## Advantages

- Allows specified strength grades to be met at reduced cement content or increased workability
- Water reduction significantly improves compressive strengths at all ages and enhances durability through the production of low permeability concrete.
- Minimizes the risk of segregation and bleeding and assists in the production of a dense, close textured surface, improving durability.
- Chloride free, safe for use in prestress and reinforced concrete.

## Uses

- To improve the effectiveness of the water content of a concrete mix
- Higher dosages provide effective means of reducing concrete permeability and thereby reducing water penetration

## Confirm standard

- IS 9103:1999

## Compliance standard

- BS: 5075:1985 part-3
- ASTM C494 Type A

## Technical Information

PROPERTIES	RESULTS
Appearance	Brown Liquid
Sp. Gravity	1.05 to 1.07 @25°C
pH Value	7 to 8
Chloride Content	Nil

## Method of Application

- The optimum dosage of PLASTCONE AP211 to meet specific requirements should always be determined by trials this allows the optimization of admixture dosage and mix design and provides a complete assessment of the concrete mix. A starting point for such trials is to use a dosage within the normal typical range of 0.6 to 1.2% of cementations material, including PFA, GGBFS and micro silica.

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

- Strength:** Reduced water cement ratio in concrete will ultimately increases the strength of concrete in all ages. This admixture will decrease water demand required for concrete and reduced water will increase strength of concrete.

**Reducing water permeability ('waterproofing'):** One of the most effective means by which the water permeability of a concrete mix can be reduced is to make a large reduction in water- cement ratio. PLASTCONE AP211 can be used to provide such a reduction and to produce a concrete with the benefits of low permeability.

## Over dosing

- An overdose of double the intended amount of PLASTCONE AP211 will result in an increase in retardation as compared to that normally obtained at the intended dosage.

## Curing

- Normal good curing practice should be adopted

## Packaging

- PLASTCONE AP211 is supplied in 20, 50 and 200 kg containers.

## 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 trails and quality of material availability.

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